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No 61.131

Ferries sail today as:

The strike at all Sealink ports in Britain except Newbaven was called off after settlement was reached in the dispute over jobs cuts. The 1,100 members of the Merchant Navy and Airline Officers' Association agreed unanimously to end the dispute and resume normal working. Ferry sailings are ex-pected to resume today.

Bid for ACC by a'Court

Australian financier Mr Robert Holmes a Court fast night told the Independent Broadcasting Authority the terms of a full take-over bid for Lord Grade's Associated Communications Corporation His proposals concerning ACC's 51 per cent holding in Central Independent Television—the main obstacle to the takeover—are likely to be approved Page 13

Tomorrow's Preview, the 16page guide to arts and enter-tainments published each Fri-day with The Times, contains a first look at the V & A's new Boilerhouse gallery, devoted to industrial design, as well as Preview's regular comprehensive coverage of the coming week's films, theatre, dauce, music, opera, exhibitions, family outings, sport, and broadcasting in Britain.

Alliance pact on local seats

The first joint list of SDP-Liberal Alliance candidates to fight the London borough elections in May is to be announced today. Negotiations between the parties on local government seats have generally gone well, in contrast to difficulties over sharing par-liamentary seats Page 3

Steps to protect old proposed

The Norwich District Coroner asked whether stricter laws were necessary to prevent old people dying of hypothermia, fter inquests on four people who died in squalid conditions. Doctors rarely used their nower to ask magistrates for an order to remove old penale from their homes, he said

Briton alleges police brutality

Air Steven Kitson, who has returned to Britain, said that the South African security police kept him in solitary con finement for five days. He underwent what he described as brutal interrogation and mental torture.

CRE chairman

Mr Peter Newsam, 53-year-old education officer at the Inner London Education Authority. is tipped to take over as chair-man of the Commission for to Mr David Lane
Diary, page 10

Home loans fall

Depression in the housing market is reflected in building societies' lending which continued to decline and stood at only 1880m for December compared with well over \$1,000m a month during the summer. Page 13

Ban on Brown

Lord George-Brown was ban-ned from driving for three years and fined \$200 by magis-trates in Hailsham, East Sussex, for driving with excess alcohol in his blood Page 3

Governor named

Australia's next Governor General will be Sir Ninian Stephen, a High Court Judge. The announcement ends specu-lation that the Prince of Wales might have been offered the Canberra post. Page 6

India in control

India, put in by England, scored 178 for two wickets on the first day of the fifth Test match at Madras. Two catches were dropped. Vengsarkar made 71 before retiring hurt Page 18

Today The Times publishes a 16-page report to mark IT 82, a year's campaign to promote

information technology. Leader page, 11

Letters: On North Sea oil, from Mr Algy Cluff; help for adustry, from Mr Roy Close

Features, page 10 Poland: How western banks have played into Soviet hands; Pastor Niemöller at 90

Obituary, page 12 Major General Frank Roberts, VC, Mr B. G. S. Cayzer

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country.

Administration. Its style was characterized by the "impu-

Jet crashes on Washington bridge in rush hour

By Our Foreign Staff

An Air Florida Boeing 737 airliner with 68 passengers and five crew crashed into a bridge in central Washington yesterday, ripping into cars stuck in jams caused by a snowstorm.

The airliner had just taken off for Tampa, Florida, from Washington National Airport. Witnesses reported bodies on the bridge and survivors in the icy Potomac below. Immediate reports spoke of six bodies recovered from the river and seven survivors. Fire service and police officials said the bridge was crowded because the Government had allowed

workers to go home early because of the snowstorm. United States park police said water rescue operations started soon after the crash, with police helicopters dropping lines into the river to try to rescue passengers.
The 14th Street bridge is not far from the

White House and the 555ft high Washington monument. man for the Federal Aviation Administration (FAA) said just after the crash, which occurred at 4 pm local time: "One of our people who saw the accident said he saw the plane nick the south side of the bridge, skin over it and go into the Potomac river on the north side of the

The Washington fire department launched rescue boats and at least one reached the scene within "I've heard reminutes. ports that there were some survivors but that is sketchy

dozen smashed cars and an city centre.

overturned lorry which had spokeswoman. George Washington University Hospital said it was waiting for survivors but did not know how many to

There has not been a major aircraft accident within the Washington limits in years. National Airport said the aircraft was Air Florida flight 35 from National to White Plains, New York. Later an Air Florida spokesman said the aircraft was bound for Tampa and Fort Lauderdale

in Florida. Fire engines and amb-ulauces threaded their way through streets clogged with snowbound traffic towards the scene about half a mile from the White

The Boeing 737 is a twoengined aircraft.

Helicopters hovered over the scene dangling loops for rescuers to grab; but the freezing freezing conditions were Mr David Hess, a spokes. making it exceedingly difficult for the survivors to keep their grip. A witness reported seeing one man having grabbed a loop fall back into the Potomac. Rescue attempts were being made from the space between two spans.

On New Year's Day, the FAA said that the United States's . main airlines had logged months without a fatal accident. The last fatal crash involving a major carrier happened on October 31, 1979, when a Western Airline DC10 crashed in Mexico

to sections of the bridge, been fears of an accident Witnesses said they had of this nature because the seen people inside half a airport is so close to the

Gormley urges miners to vote for pay peace

By Paul Routledge, Labour Editor

day riggered off a bitter politi-cal row by signifying that pit-men should defy their executive and vote for a 9.5 per cent pay offer rather than a strike.

Mr Gormler counselled against a stoppage because miners would lose wages and the expansionist Plan for Coal could be jeopardized. Miners begin voting in secret today on a request from their executive for authority to mount a strike
"if necessary". They are
asked: "Do you support your
national executive?" and voring is by a cross in a "yes" or "no" box. The NCB offer is printed on the back of the

Mr Gormley said :, " I would have thought the offer was acceptable. I have not changed my view since the executive discussed it." He agreed that his words amounted to an implicit appeal to miners to vote "no" in response to the NUM executive's manimous request

for authority to strike, if necessary, to drive up the National Coal Board's final \$102m pay offer, [Sir Derek Ezra, NCB chairman said they even if faced with a strike.

would be unable to offer more Mr Gormley's advice brought. forth a storm of protest from the left in the union Mr Michael McGabey, Communist vice president and leader of the Scottish pitmen, described the eve-of-poll appeal as "out-rageous" adding: "It is

unprecedented in the history

Mr Joe Gormley, the out of any union for the president going president of the National to come out against the policy Union of Mineworkers, yester of the union in the middle of a wages battle. . . I am con-fident that we will win the majority necessary for strike action.

Mr Arthur Scargill, the NUM president-elect, said: "We require a minimum 15 per cent increase. I am both surprised and saddened. The statement is all the more regrettable beunanimous annual and special conference decision."

Mr Gormley's comments vesterday followed a signed article in the Daily Express. in which he said: "There is not much likelihood of a strike producing more than a few more quid in my judgment. And I am not too sure that a lot of miners will be willing to give up earnings well in excess of £100 a week to strike for

that little improvement.

"The left wingers are claiming that a big, clear majority will show the feeling in the coal fields and that, by demonstrated strating that we mean business, we will push the Coal Board and the government into producing more money.
They could be right. Nobody can be wrong all the time. But I am afraid I do not share

their optimism. I don't believe the board has any more cost and I have no false hopes that Maggie Thatcher will cough up for us."
Talking in the Euston Road headquarters of the NUM yes-terday, Mr Gormley said: "I



THURSDAY JANUARY 141982.

By Staff Reporters

information that's not substandard", he said. Boeing lations, aircraft have to take to take passengers.

People were reported over Washington folinging to the wreckage of the aircraft in the river and to sections of the bridge.

The Prime Minister broke down and wept yesterday as the Mark who has been missing in the Sahara Desert since Friday.

Last night the Queen sent her later cancelled the aircraft in the river and suburbs. There have long to sections of the bridge.

The French news agency all right I did feel very sorry down and wept yesterday as that two imidentified people with the Sahara Desert since Friday.

Last night the Queen sent her a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern with the Sahara Desert was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white a private message of concern was driving a white was driving a white a private message of concern was driving a private message of concern was driving a private message of conc Algeria to join the search.

As Mr Thatcher arrived in Algiers, he was told of a possible sighting. Algerian authorities said a man answering his son's description crossed the frontier into Mali at a remove compos spot called Irharrhar. There She moved towards a line of ware also unconfirmed sight-officials from the National Mile Charlotte Verney, and a mechanic. The search was called off until daylight

According to our confespondent in Paris, the French Defence Ministry confirmed that the Peugeot of being driven by Mr Thather had been found by the Algerian gendarmeric near the frontier herweet Algeria and Mall, though none of is occupants had been located

was very concerned, well in the foyer of a London hotel while on her way to an engagement. Her sides gathered round her and she leaned against one of them, trying to compose herself.

ings of Mr Thatcher's co-driver, Federation of Self Employed and Small Businessmen but she had to pause and steady berself when emotion appeared to overcome her.

Red eyed and looking strained, Mrs Thatcher spoke to the owner of a handbag in Russell Square, Mrs Larrain Goldstein said afterwards: "She stumbled a bir and was

the Hungarian Foreign Minister because of her concern, and retreated to her private rooms in Downing Street.

Mr Deais Thatcher was meanwhile on his way to North Africa in a private aircraft pro-vided by Sir Hector Laing, a friend of the Prime Minister. A Downing Street statement said every effort was being made to establish where Mr Mark Thatcher was and the Government was in touch with the British embassies in Dakar, Algiers, and Paris.

The French Government sent three military planes into the desert yesterday to join in the search and President Mitterrand expressed his sympathy to Mrs Thatcher Profile, page 3

Strike until we win, say drivers

Attieudes in the resilways dispute hardened yesterday when leaders of the footplatement's union gave a warning that the strikes would not end until British Rail gave a 3 per cent pay increase to members. The union leadership will take a decision soon on whether to extend the action to an about stoppage.

Reporting 100 per cent support from train drivers yesterday for the first day of the 48-hour strike, Mr Ray Buckton, general secretary of the Associated Society of Locomotive Engineers and Firemen (Aslef), said the dispute could be lengthy if British Rail maintained its refusal to make the payment.

Labour Reporter

rail board is seriously considering the rail board is genously consider work down when the dear are opin to end this dispute ", Mr Suckton Said." Why make the sination work 1 say to Sir Peter and his colleagues: let us get toggine and pull our selves out of a conflict which the rail may make the sination work? I say to Sir Peter and his colleagues: let us get toggine and pull our selves out of a conflict which the railways how the the sination work? I say to Sir Peter and his colleagues: let us get toggine and pull our selves out of a conflict which the railways how the the sination work? I say to Sir Peter and his colleagues: let us get toggine and pull our selves out of a conflict which the railways how the rail network to end this dispute ", Mr Peter and his colleagues: let us get toggine and pull our selves out of a conflict which the railways how the rail network to end this dispute ", Mr Peter and his colleagues let us get toggine and pull our selves out of a conflict which the railways how the rail network to end this dispute ", Mr Peter and his colleagues let us get toggine and his colleagues. Let us get toggine and pull our selves out of a conflict which at a conflict which and the railways how the sination work? I say to Sir Peter and his colleagues. Let us get toggine and the colleagues and the colleagues and the colleagues and the colleagues. Let us get toggine and the colleagues and the Reporting 100 per cent sup-port from train drivers yester-day for the first day of the 48-hour strike, Mr Ray Buckton, general secretary of the Asso-ciated Society of Locomotive Engineers and Firemen (Aslef), said the dispute could be lengthy if British Rail main-tained its refusal to make the payment.

payment.

Mr Buckton apologized to the public "for the inconvenience they are suffering as a result of the dispute. I want to make it very clear about its causes. They are suffering because the British Railways Board has torn up one agree-ment with the society on pay." With both sides firmly en-irenched and no talks arranged to resolve the dispute, there appeared to be no possibility of an early end to the strikes, which will be continued on Sunday and Wednesday and Thursday next week.

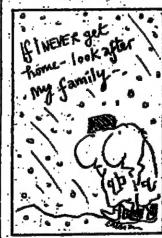
Sir Peter Parker, British Rail chairman, said on the BBC television programme Nationwide last night that flexible rostering, which is at the heart of the dispute, was a "very important symbolic piece of efficiency."

He said that Reitish Rail

He said that British Rail might have no alternative to closing the railway network if the strikes continued because Asief had made it clear that it wanted to wreck services over the next two weeks. The strikes were "totally unnecessary and totally unexpected" in view of the productivity agreements reached with the three rail unions last August. The board will discuss to-The board will discuss tomorrow whether to suspend the
20.000 train drivers who are
striking, a move which Mr
Buckton indicated would probably lead the Aslef executive
irlo calling an all-out strike.
Even without the suspensions
the executive will be discussing possible extended action to
follow the strikes.

Mr Buckton said the union
had consulted lawyers and was
advised that its members may
have grounds for legal action
against British Rail for with-

have grounds for legal action against. British Rail for with-holding the 3 per cent, which is the second stage of an 11 per cent deal agreed in talks last August that averted 2 threatened strike.



By David Felton, Labour Reporter

made that point in A but if there was absolute no intention of talking about eight hour day, why con to talk about the probles would cause his member late as last October?"

The Aslef executive is in permanent session at the union's headquarters in Hampstead, north London, and is planning next week's strikes.

Commuter chaos in 500 miles of jams

London yesterday was the epicentre of a national up-heaval which brought 500 miles of traffic jams to the city and long hours of tedium to those among the 400,000 daily com-muters who tried to go to work, without benefit of British Rail

(Tony Samstag writes).
The traffic jam was in effect 10 hours long, the Automobile Association said, beginning at am and going into reverse at 4 pm. Motorists were to be congratulated on their patience and understanding. The traffic, which involved an overall increase of more than 50 per cent in volume, with a 90 per cent increase on all southeastern and eastern routes, reflected the immensity of the resources made idle by the rail

However, although roads in and out of London were ex-tremely busy motoring organizations and the police said congestion had not been as bad as they had feared. In Greater Manchester and the West Midlands police also said there had been no problems with the evening traffic, although fog had descended on the M6

On a normal working day British Rail carries two million passengers on 11,000 miles of track serving 2,500 stations. There are 3,300 locomotives to pull 20,000 coaches and 120,000 1,000 tons of mail.

All that was struck silent yesterday, with only the occa-sional flurry of movement to indicate that 150,000 or so railway employees were not on strike.

Although the centre of London remained tmusually quiet until well into the afternoon, the traffic jams on the periphery were aggravated by conditions described by the AA as diabolical, with freezing fog and black ice contributing to a rash of accidents. At one stage the M25 south of London, the A23 London to Brighton, the A13 London to Southend, and the A3 London to Portsmouth roads were all blocked by accidents. by accidents.

Photograph, back page

Government to block Royal Bank takeover

By Peter Wilson-Smith, Banking Correspondent

The Government looks certain to lock both takeouser bids for the Royal Bank of Scotland in line with the recommendations of the Monpolies and Mergers Commis-

Mr John Biffen, Secretary of State for Trade, is under-stood to have already con-sulted the Prime Minister and to have decided that it is not possible for the Government to overrule the Commission. The Government's decision is due to be announced to-morrow. This news knocked everal pence off Roval Bank's

shares. After rising to 1520 earlier in the day, they fell back to close unchanged at This is still 49p lower than last Friday's price before newspaper reports first sug-gested that the Monopolies Commission, which has investithink the offer ought to have gated the two £500m takenver continued on back page, col 8 bids from Standard Chartered

and Hongkong and Shanghai Banking · Corporation, recommended against both.
The Monopolies Commission report has been circulated to the Bank of England and in

Whitehall, and the issue may be discussed at today's meeting of the Cabinet. However, Mr Biffen and the Prime Minister are thought to have felt that their hand has been forced by the leaking of the report and to have been influenced by the for the Government overturning a Monopolies Commission

recommendation on a merger. Under the 1973 Fair Trading Act. Mr Biffen does have the power to overturn a negative ruling by the Commission. But' aithough last month the Govment took the unusual step of rejecting a recommendation on credit cards, it has not in the past rejected the Commisrecommendations

Leading article, page 11

Albanian leader may be dead

From Dessa Trevisan Belgrade, Jan 13

Reports reaching here suggest that Enver Hoxha, Communist ruler of Albania for the past 36 years, died of injuries received in a gun-

speak of a gun-battle between Prime Minister and party chief as the cause of Sheku's death. The facts may be revealed when Parkament meets in Tirana tomorrow, but in the meantime striking evidence has emerged which indicates that Mr Hoxba may have lost

the battle. Yugoslav travellers report that the huge portrait of Mr Hoxha, made of white pebbles on a hill-top at the frontier crossing at Bozui, has been partly removed. The party partly removed. The party leader's face, which towered demonstratively over the coun treside, can no longer be identified. Yugoslavs think that it has been deliberately obliterated as the first step in remov-

ing all trace of him. The other equally significant fact is that Albanian lorries, which transit through Yugoslavia on the way to Western Europe, no longer carry the portrait of Mr Hoxha, accord-ing to the Yugoslav custom

officials, who have made a very careful scrutiny of all these vehicles. It should not neces-sarily be deduced from this evidence that Mr Hoxha's opponents have taken over; but it does show that something unusual leas been going on in Albania since the death of the Prime Minister: In Belgrade it is firmly believed that Mr Hoxha was injured in a shooting affray, in

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Moscow calls Nato resolution a farce From Michael Binyon, Mescow, Jan 13 . The Russians today denied dent distortion of facts, the revolutionary forces in Poland It said that the obvious Ameri-

that they played any part in high-handed tones and exces-Leading articles: Bank of the imposition of marrial in England; Miners: US China the Polish leadership to take the imposition of martial law sive political ambitions". The agency asked what right the Americans and their allies had to speak about Poland the steps it did. while they stifled attempts by An angry official response people in Chile, the Dominican Republic and El Salvador to to the recent Nato session on Poland, issued by Tass, said decide their destiny, and

the measures were decided and carried out by Poland encouraged Israeli aggression. Tass said the Nato members alone. And it accused the United States and its allies of were enraged that the danger of imminent civil war and national catastrophe had been averted in Poland But Wash-ington was still trying to encourage violations of the law trying to dictate to the Poles how to organize their affairs while continuing to encourage anti-socialist forces in the and the overthrow of the sys-Tass called the Nato statetem there, using intelligence services, instigatory radio broadcasts and special radio " disgracefui farce " ment a "disgraceful tarce" initiated by the American

The plan of counter-

instructions.

ist state and restore the bourgeois system. Tass added. But while denying that Moscow or its allies put pressure on Warsaw, it said that the Soviet Union was not indifferent to the fate of socialist Poland. "Hundreds of thousands of

Soviet people gave their lives when liberating Poland from fascist slavery, and this cannot be deleted from the memory of either the Soviet or Polish people Nor a single American died on Polish soil for the liberation of Poland." Reflecting Soviet anger at the hard line adopted in Brussels by the West Europeans,

had been to destroy the social- can aim was to poison the general political climate even more and worsen the atme-sphere for a dialogue between East and West.

Soviet Union and its allies. "No hostility to socialism asa social system can and must overshadow the problems of

war and peace, or ending the arms race, especially the nuclear-missile arms race. To destroy the basis of talks on these problems, the solution of which is awaited by the people.

The message also reflected growing fears here that the Polish crisis will spill over into the Geneva arms talks. It said the West needed an end to the arms race no less than the

which Mr Shehu met his death. The question now is whether he is still alive. Credence is imposing its will on its alties of the world, would mean to he is still alive. Credence is against their national interests. assume a grave responsibility." Continued on back page, col 5

fight on January 5. Albania has stated officially that Mehmet Shehu, the Prime Minister, "committed suicide" on that day during a nervous crisis. But persistent rumours are it of a sundante between

Miss Philpet, ged 91, in her bedroom, which she calls "the North Pole".

Victims of the freeze

Cold comfort in an old town

Miss Jo Ockenden, aged 76, who recently had three amputations within a year to remove both legs, leaves her gas aven on all day with the door open

to try to heat her large flat. She manoeuvres her wheelchair, alongside the gas fire to heat

"Friends tell me I shall

Coroner urges doctors to act

washing bathing emptying commodes and administering medicine.

One thing they find they cut is heating. It is going to cut a fortune this year."

Often cannot do even in a com-

The Arctic weather neans a

constant red alert fo social

workers in Bexhilon-Sea.

which has the highest propor-

tion of old people in Vestern

In the Sussex town, where more than 60 per cent of the 34.000 population are over retirement age, the danger of deaths from hypothermia in present conditions is acute. The local general hospital, St Helen's in Hastings, is dealing with four cases a week.

Local policy has been a keep the elderly our of costy institutions and in their own homes by an intensive network of daily home helps, who wil do everything, including shop ping, cooking, cleaning and washing, bathing, emptying commodes and administering medicine.

The resuarks of Mr Oliver Prior, the Norwich District Coroner, came after inquests on four people from Norfolk who died of cold in squalid conditions, three of them over the Christmas period.

A woman was admitted to hospital with a body temperature of 18', 19' below normal. A man of 73 who died in the filthy interior of his bungalow was found to have savings of more than £10,000.

Mr Prior said that doctors

Mr Prior said that doctors had powers under Section 47 of the National Assistance Act,

of the National Assistance Act, 1948, to ask magistrates for an order to remove persons in certain circumstances: when old people are suffering from grave chronic disease or, being aged, infirm or physically incapacitated are living in insanitary conditions and are unable to care for themselves and are not receiving from other persons proper care and attention.

The campaign said that all electricity boards, except those in South Wales, were

continuing to disconnect sup-plies where bills were impaid, despace the extreme cold and the risk to life

with four cases a week.

Europe.

NEWS IN SUMMARY

Death in snow: PCs

Suspended

Two police constables have one suspended, from their from the form of a man sieged over the death of a man sieged buried in deep snow fourthe burish Carrespondent wites). The body of Mr Tony Williams of the city (Our Edin-Dr. Was found eight days after burgh itome, it is alleged that he was last seen at life Edin in a policy or and feleased on slower that a lonely road on the city's out. Loddian and forders police said, the officers had been fully aware of the extent to which should be halanced to the subsidy is in the company of the costs of civil proceedings. He reports that a ment and the Tree sury do not appear to have been fully aware of the extent to which should be halanced to the procurator Piscal.

Ministers to the pro
The fees which are now to be examined by officials and the danger that make for professional for the configuration.

The fees which are now to be examined by officials and the danger that make for profession the long transition.

Ministers help in air-fares fight

The Government is to support the argument at the European Court of Justice of Lord Befield, Conservative European MP for London, North-West, that certain aspects of the present arrangements for fixing European air fares are against EEC competition rules (Robert Jones writes).

The motification that the Treasury Solicitor wishes to appear is intended as a warning to other European countries that Britain is prepared to fight in the courts for cheaper fares and fewer restrictions on European air traffic.

tions on European air traffic. Lord Bethell will meet Frans

Food firms' plea over CAP

The Food Manufacturers' Federation yesterday renewed its call for changes in the EEC's common agricultural policy, to make it more responsive to the realities of supply and demand (John Young writes). It comes on the eve of the annual round of negotiations on farm price increases. The European Commission is expected to make its recommendations rounding or on Monday,

Colleges face cash cuts

High-spending polytechnics and colleges are to get far less money under the Government's new system of funding higher education outside the univer-sities (Diana Geddes writes) The Government is expected to announce on Monday the distribution of the higher education pool which for some institutions will involve a 16 per cent cut in real terms compared with 1980-81.

Political levy tops £100.000

More than £100,000 has been More than £190,000 has been raised towards the £250,000 target of a union-controlled levy fund set up last September to aid the Lobour Party between now and the next general election, it became known vectorials after a meet known yesterday after a meeting of Trade Unions for a Labour Victory (TOLV) (Our

Labour Correspondent writes):

SUFFICAY TIMES

Staff Clanges

The Sunday Times announced resterday that Mr. Brian MecArithur, executive editor (news) of The Times, has been appointed joint departy editor of The Sunday Times, with effect from next week. Fig. will replace Mr. Ronald Hall and will edit the paper in the absence of the editor. Mr. Frank Glies, Mr. Hall, who is also editor of The Sunday Times Colour Magazine, is reclinationing the paper as a clime when circulation, along with that of other quality Sundays, is falling and the crappany is in serious financial trouble. He said that when he said that when he crappany is in serious financial trouble. He said the crappany is in serious financial trouble. He said that when he said that when serious financial trouble. He said the crappany is in serious financial trouble. He said the crappany is in serious financial trouble. He said that when he said that he crappany is in serious financial trouble. He said the crappany is in serious financial trouble. He said the crappany is in serious financial trouble. He said the the common secon, he decided to make his protest when shout 1,270,000 copics at present, which was 6 pet continued to the campany of cars he shought he was too late. Then the palace of Westminster and do some protest inside and try to get some attention to myself? The case continues today.

Civil court fees increase

Substantial increases in thehigher judiciary were met fees distred for court from the Consolidated Fund so actions at a to emphasize the indepentue of the fudiciary from the consolidated from the fudiciary from the fudicia

litigants.

The fees which are now to be examined by officials and ministers: include charges made for probate, matrimonal recovery.

proceedings, debt recovery, and bankruptoy.

Mr Downey says: "The costs taken into account in fixing fees are limited, since they do not seek to recover any part of the salaries, pensions and associated administrative expenses of the judiciary. Nor are the fees set so as to recover full expenditure on allied services, such as accommodation, staff pensions, investment expenses and banking ser-

An unpublished account drawn up by the Lord Chancellor's Department for 1980-81 showed that fees and other income from civil business brought in £58.3m, with a deficit amounting to an estimated £22m. Estimated receipts for the current year were put at £74m.
The Lord Chancellor's De-The Lord Chancellor's De-partment told Mr Downey "that the salaries and pen-sions of Circuit Judges and the

dence of the judiciary from the executive, and it therefore appeared inappropriate to in-clude them in a departmental

account."

But the comptroller also reports that there had been a long-standing dispute between the Lord Chancellor's Departthent and the Treasury over the extent to which the books should be balanced for civil proceedings in the courts. "Successive Lord Chancel-

lors have argued against in-creases beyond limited costs because of the social benefit because of the social benefit conferred by the court service, and the danger that excessive fees could lead to a denial of justice to poorer lirigants."

Mr Downey points our. "Where it has been decided as a deliberate act of policy nor to charge the full cost of a service it is usual, whenever possible, to agree with the Treasury a specific target level of receivery, for example, as a percentage of full costs." That principle had not been applied to court fees for civil proceedings.

Mr Downey therefore asked the department and the Trea-

the department and the Tres-sury whether the fees policy should not now be reviewed by ministers.
In reply the Lord Chan-

cellor's Department said they considered that it would be appropriate in the courtent situation for a note of the facts and considerations bearing on and considerations realing of fee policy to be agreed between officials of the LCD and the Treasury, and that this report should be submitted to minis-

Plot to kill **Thatcher** is denied

A teenager denied at the Central Criminal Court yesterday that he intended to kill the Prime Minister when he broke through Parliament's tight security armed with a knife.

Nigel Eastmond said he planned to make a personal protest. Killing had just not entered my misd—or doing

entered my mind—or doing violence to anyone.

I do not have any feelings towards Mrs Thatcher at all "Mr Eastmond said in evidence.

Taking things on a political basis maybe I may have, but personally no."

Mr Eastmond, aged 18, of Queen's Drive, Finsbury Park, north London, has denied threatening, to kill Mrs Thatcher; entening the Palace of Westminster with intent to inflict grievous bodily harm on her having a knife in Old Palace Yard; and attempting maliciously, to wound a Parliament employee an July 9 last.

last.
The prosecution allages he set out on a personal mission to kill Mrs Tharcher, and that he scaled a fence into Black Rold's garden, brandishing a kitthen kniff, shouting kitthen kniff, shouting: "I want to kill Margaret Tiptcher."

Yesterday Mr Eastmond said

The case continues today.

Gowrie dual citizenship hint uproar From Richard Ford Belfast

Belfast
The Government faced strong criticism last night from Unionist politicians in Ulster over comments made by Lord Gowsie, Minister of State at the Northern Ireland Office, concerning the political and economic problems of the province, particularly the question of dual nationality with the republic.

republic.
In a wide-ranging interview,
Lord Gowrie made clear that despite pressure and criticism from politicians in the North Government had set its ; "like flint", against drop-g cooperation with the

ping cooperation with the republic.

The minister, a southern Protestant brought up in Donegal, also suggested that he would like to see dual citizenship with people in the North who regarded them selves as Irish being administered by Ireland and Britain. His remarks were immediately denounced by both parties who represent "loyalists" in Ulster, with a spokesman for the Official Unionists calling them "damnable".

A statement from the Rev

A statement from the Rev Ian Paisley's Democratic Unionist Party attacked Lord Gowrie's comments as a brazen

declaration.

It called on all Ulstermen to defend their heritage from a government-planned destruction and added: "The minister treate of File declaration and added to the minister treate of File declaration and added." speaks of fiint determination, but he will experience the real meaning of that term if he dares to try and push Ulster down the road he plans



Mrs Eileen Paisley, who will deliver a speech in Washington for her husband, the Rev Ian Paisley, who has been refused an

CASH DELAY 'AFFECTS CHILDREN'

The National Society for the Prevention of Cruelty to Children, which is in a serious financial crisis, said last night that it was disappointed that the Government has still to decide whether to give it financial support.

Under-Secretary of State at the Department of Health and Social Security, society officials said that he had asked for more time to consider the

The Government had, how-ever, known of the society's financial position since last July, the society said. In 1980 the society had a deficit of £828,000. Lord Elton, who is said to have listened sympathetically to the society's case, is to visit the society's office in Haringey, London, today.

Dr Alan Gilmour, the society's director, said: "We hope it will convince him of our urgent financial needs. If it does not it will be extremely bad news for many children".

The Right to Fuel Campaign, which is due to meet ministers today to argue the case that nine out of ten were estimated 30,000 households which are without electricity.

The campaign said that all most of the people disconnect their fuel bills. More than nine out of ten were estimated to be in hardship, and three fifths were living on state benefits.

In a normal winter 48,000 more people aged over 65

an order to remove persons in certain circumstances: when old people are suffering from grave chronic disease or, being aged, infirm or physically incapacitated are living in insanitary conditions and are unsable to care for themselves and are not receiving from other persons proper care and attention.

What does concern me is the deterioration of standards of social behaviour which leads to this state of affairs, self-neglect and living in worker, who pleaded with her thought they wanted his money.

A verdict of misadventure, occasioned by self-neglect was occasioned by self-neglect was of Cambridge Street, Norwich, or a retired children's nurse, who died at her home on December the previous at her home in Christmas Day with a body was covered in grime.

A verdict of misadventure, occasioned by self-neglect and lack of care, was returned.

A Miss Ivy Bracey, aged 84.

A living in a retired children's nurse, who died at her home on December the previous at her home in the provious at her home in the house and little food, same at a body was covered in mas, but he had refused to missadventure, occasioned by self-neglect was of care of care, was returned.

There was no electricity in the house and little food, same at her home in the house and little food, same at her home of 18°C. The previous evening he had been visited by a doctor and social worker, who pleaded with her

Plea to stop power disconnexions

in a normal winter 48,000 more people aged over 65 died than in the summer, the campaign added, and deaths of habies aged under 12 months rose by two fifths. In the

At present more than 500 people at risk.

The campaign said that there was a precedent for suspending discommendate.

Full details of how that extra help will be organized are expected to be announced.

By Pat Healy, Secial Services Correspondent The Prime Minister was urged yesterday to prevent more babies and old people dying of cold in the severe weather by instructing the finel suppliers to suspend disconnexions.

That healy, Secial Services Correspondent

That there pointed out that the social security and energy ministers and the campaign's ministers and the campaign's representatives. Some claim code of practice designed to anis in fact already receive finel suppliers to suspend disconnexions in cases of some extra help towards their heating bills.

in cash in the bungalow and savines books carrying credits of \$10.380.

The police a doctor and a social worker had artempted to persuade Mr Hubbard to not into a hostel over Christmas, but he had refused because he thought they wanted his money.

A verdict of misadventure occasioned by self-neglect and veturned.

Mrs Clark was taken to hospital with a body temperature of \$25°C and died later. Mrs Clark's home was as cold as a refrige erator and extremely dirty and her bedy was covered in grime.

A verdict of misadventure, occasioned by self-neglect and tack of care, was resurned.

4. Miss Ivy Bracey, aged 84, of Cambridge Street, Norwich, a refired children's press, who

eter bottle and warmth from the sitting room. The fire costs so much said Miss

Philippt, who saves all year to spend Christmas and Easter in a hotel down the road.

☐ Mr Alfred Nudds, aged 87, a bichelor, who is blind and almost deaf, is surviving the freezing temperatures in a f13 wooden hut 8ft by 6ft on the edge of Hickling Broad, Norfolk, without electricity or running water (our Norwich Correspondent wites)

heating bills

Householders receiving supplementary benefits: whose family includes a person aged 70 or over, or children under the age of five, automatically receive a heating allowance of £1.65 a week. That would buy enough heat from a two-bar electric hazter to keep one room warm for about 12 hours, and hot water for a mother and haty harely sufficient for a day.

People who are sick or dis-shed and who live in homes hard to hast can get heating allowances of \$4.05 a week, enough to buy about 45 hours' heating from a two-bar electric fire, which is acknowledged to be an inefficient method of heating. Gas, heating would cost about half the electricity figure.

Threat of censure. over GLC fares vote

By David Walker Some of the moderate and ight wing Labour members of the Greater London Council, who voted on Tuesday to double hus and Tube fares in their local parties, despite a public promise by Mr Kenneth Livingstone, the council leader, that there would be no with-

The front page of the influential left wing monthly London Labour Briefing, when it is published tomorrow will list all GLC members and how they roted at the private group meeting of Labour councillors on Monday.

oh Monday.

An editorial article notes that those voting for the fares increase, were obeying "Tory judges" and delying a strong recommendation from the executive committee of the London regional Labour Party urging councillors to make a stand on the fares issue above all others. All others.
Recept meetings of Labour

Accept meetings of Labour councillars at County Hall have been amicable, but members of Mr. Livingstone's inner calinet have said in private that the roting record of filer colleagues is something for constituency parties to consider

constituency parties to consider.

At Tuesday's eight-hour council meeting Mr Tavingstone said. I urge my colleagues not to make this a divisive issue. Because voring against the fares increase could leave councillois liable to thancal penalties and disbarment from oublic office it was ment from public office it was agreed informally that votes would not be considered a test of loyalty to the Labour mani-

However, members or me Brisfing caucus are likely to argue in their various constitu-encies that all Labora council-lors should be prepared to be surcharged and sued in pursuit of their socialist policies.

Cuckold by pony costs £140,000

paratively affluent retirement area like Berhill is to persuade the old people to heat their homes.

This week a home help discovered Audrey, an elderly spinster of comfortable means, collapsed across her bed in an unheated house, her limbs blue with cold, and likely to have died within hours. Another pensioner was found wrapped in an elderdown in front of just one bar of an electric fire.

Miss To Ockenden. aged 76, water bottle and warmith from When a little grey Come-mara pony stepped in to sire foals from two racing mares, instead of the successful stal-lion. Tap On Wood the resulting mix-up cost his owner more than £140,000 in com-pensation.

pensation.
The posy, standing 12 kands, was used as a teaser for mares in season at the Kildangan Srud. in Ireland, owned by Mr. Roderic More O'Ferrall.

More O'Ferrall
The mix up occurred according to Mr Norman Buxion, sud groom at the time at the co Kildare establishment, who said he was not to blame for the mix up, because the pony was allowed to run unsupervised with the mare.

After the findings Count.

Marveldt received a fotal of
£72,500 in compensation,
£10,000 return of fee, a free

Ton On Wood.

Matter the sindings country of plesmas, and
the most edvanced devices
achieve this control with
magnetic fields. With the

A coroner noted yesterday that doctors had powers to ask magistrates for an order to remove old people suffering from hypothermia from their homes when they were not under proper care and attention. But the doctors did not use that power as much as one would imagine they might, he said.

The remarks of Mr Oliver Prior, the Norwich District Coroner, came after inquests on four people from Norfolk

From Bavid Hewson, Norwich

Mr Prior said.

Mr Prior said to enter a hostel, but she ordered them out of the house.

Mr John Drummond, the social worker, said: "She became very irate and said circles.

Mr Prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "She died on Boxing of the prior said that Dr Taylor bed "I am not worried about dying." I would rather die in my own bed "She died on Boxing of the prior said that Dr Taylor bed "I am not worried about dying." I would rather die in my own bed "She died on Boxing of the prior said that Dr Taylor bed "I am not worried about dying." I would rather die in my own bed "She died on Boxing of the prior said that Dr Taylor bed "I am not worried about dying." I would rather die in my own bed "I am not worried about dying." I would rather die in my own bed "I am not worried about dying." I would rather die in my own bed "I am not worried about dying." I would rather die in my own bed "I am not worried about dying." I would rath

Science report-Classical physics makes a comeback

By the Staff of "Nature" By the Staff of "Nature" a The era of classical physics, the stuff of Sir Isaac Newton, james Clerk Maxwell and Lord Kelvin, among others, is generally thought to have come to an abrupt end in 1905, when Albert Einstein published his revolutiously theory of relativity. At the very latest the period is extended to the mid-1920s, when mannin mechanics (which describes elementary particles, as a kind of statis-(which describes elementary particles, as a kind of statistical combination of particle and wave) was established. But now Professor W. Farrell Edwards, of the State University of Utah, comes along and upsets the historical apple cart.

Professor Edwards has given a beautifully simple, classical proof of an importclassical proof of an important phenomenon which was thought to be a purely quantum, mechanical effect. The result is that the phenomenou can now be sought in start, in space, and even in the monuclear fusion reactors. It may have a fors. It may have a profound effect on astro-physics and on the fusion physicists approach to auclear fusion.

nuclear fusion.

The phenomenon is the "Meissner effect", which controls the relationship between magnetic fields and superconductors. Superconductors are materials (usually metals) held at very low temperatures, when the random thermal joggling of atoms is so small that quanatoms is so small that quan-tum effects can have a flow constitutes an electric correst) can flow like waves.

without resistance, through the substance.

The Meissner effect ex-cludes all magnetic fields from a superconducting re-resign—except for occasional gion except for occasional thin tobes of field that can thin takes of field that can penetrate the superconductor. like mails through wood. In-side each tube the super-conductor reverts to a nor-mal, resistive state. Outside the subes the magnetic field

Professor Edwards has now shown that that phenomenon can occur classically in any material that has high can occur classically in any material that has high enough conductivity—even when quantum mechanical effects are unimportant. The right conditions can occur in plasmas, high temperature gases in which electrons have been stripped from atoms, leaving all the particles electrically charged. As it habpens, most matter in the Universe is in the plasma state (stars are almost entirely plasma, for example) so the phenomenon, if Edwards's eleasant theory is correct, should be found widely.

Even more important for energy-hungry Earth, nuclear

energy-hungry Earth, nuclear fusion—which would create nomination to Tap On Wood (now raised to £12,500) and £50,000.

A similar amount of compensation was also paid to Quay Line's owners, the Barnett samily of Relfast.

In a similar amount of compensation was also paid to Quay Line's owners, the Barnett samily of Relfast.

Ministerial onslaught on Civil Service managers

By a Staff Reporter

Lady-Young, Chancellor of rewarding as one spent in the

so,000 in winter. "He has constituted it was returned.

Stantly urged hat more attention be paid to this state of affairs."

Olk The inquests were on:

Ilid 1. Mr Cecil Hubbard, aged yer 73, a retired farmworker, of Ostend Road, Walcott, Norfolk, who was found on the floor of her bedroom by her husband, aged 77, on Boxing Day. She had eaten only toast at Christmas Day lunchtime because she was not hungry and liked to shome on Boxing Day. The only of home on Boxing Day. The only of home on Boxing Day. The only of home was half a loaf of bread and two packets of flo.380.

The police, a doctor and savines books carrying credits of misadventure was returned.

3. Mrs Gladys Clark, aged 85, who was found on the floor of her bedroom by her husband, aged 77, on Boxing Day. She was not hungry and liked to she was not hungry and

Lady Young Chancellor of the Duchy of Lancaster, yester day blumtly attracked unprofessional management in the Sional management in the Civil Service and promised radical changes this year aimed at securing greater efficiency and value for money.

In the first important minister said that to active the amazed staff reporting system and promised to give more emphasis to management performance. She also promised to increase delegation of responsibility and to bring in more staff with external financial qualifications.

In the first important minister said that to active the amazed staff reporting system and promotion recommendations would need to give more emphasis to management performance. She also promised to increase delegation of responsibility and to bring in more staff with external financial qualifications.

If will mean that the Treasury and the new Management and Personnel Office will need to restrict their monitoring to the absolute minimum, to avoid fussy instructions and regulations.

The Management and Personnel Office will be at the Civil Service College, in Sunpingdale, Berkshire, Lady Young said that a attitude in the Civil Service towards management will need to be changed, in some cases quite radically. I still meet the attitude that to active that to promotion of responsions would need to give more emphasis to management performance. She also promised to manage the activity and the new Mana

#1-0.00 # 200-0.00 # 200-0.00

areas of departments are superior to those in line management.

"Clearly we need to change the culture quite dramatically if we are to secure acceptance throughour the Civil Service that a career spent largely in management jobs can be as objectives.

It will also involve projects to improve the system for controlling running costs in departments and to examine the personnel work of departments. An action document will be published next month setting out how the Government intends to achieve those objectives.

Doctor wins libel action

Dr Garth Wood and his wife, the article suggested that Dr Par Booth the model and Wood, having qualified as a photographer, yesterday ac medical practitioner in this cepted undisclosed damages country in 1978, had "decanned to California". Since the publication of the article and which suggested the doctor was disloyal to the National Health Service.

Mrs Wood complained of a senior house officer in psychiat which gave the misleading impressing that the was reading a book with a "little and salar country in 1978, had "decanned which gave the misleading impressing that the was reading a book with a "little and salar country in 1978. Bestian Service of the particle and which gave the misleading impressing that a little and salar country in 1978, had "decanned was employed as a senior house officer in psychiat second and which gave the misleading impression that a little and salar senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house officer in psychiat second was employed as a senior house offic



105 . 10 . 20' 1. 30 . 40 ' 50 · 60 70 \$ 50 ' 90 100 Acclaim driver wins top award for outstanding economy drive.

in December to Lowres. freelance journalist won. the Guild of Motoring Writers' highly coveted Timo Makinen Award.

given for an outstanding ... performance in railying. Mr Lowrey, an expert in economy driving techniques, was given the award for his victory when he partnered the new Triamph Acclaim in Britain's premier economy tum - The Hants and

Berks Economy Rur

Despite the challenge of many smaller engined cars, the Acciaim wonoutright, with nemarkable consumption figures of 75 mpg overall

Triumph are especially proud to have won the Run against heavy overseas competition. The Acclaim's performance confirms BL Cars trad- ! ition for exceptional fuel economy.

BL Fighting back

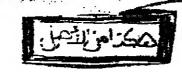
By Nicholas Timmins

support.
After meeting Lord Elton.

present severe cold disconnec-ting electricity supplies was adding to the difficulties of people ar risk.

The letter to Mrs Margaret after today's meeting between

a day.



assical physics, r I sear tenton, and are more others, and amount to have abrupt and in libert Einstein revolutions. revolutionere ativity. At the e period is en the mid 1920s, an merianic bes elementary kind of state kind us stant ssor W Farrell he State Unit.

the historical tiruli, mple of an import a pure: The time plane the plane pla fixed to read the read to the on the fusion approach

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Ssical sics

Alliance in harmony for local election seats The first joint list of In most places seats have SDP/Liberal candidates who been divided between the two among the metropolitan dis-

smith and Fulham Council is exactly half. will be contested by 26 Social Democrats and 24 Liberals. It Democrats and 24 Liberals. It will be the first time for more than fifty years that Liberals and 58 Social Demothere has been a three-cornered fight in all the seats only a third of the council where the harmonist in the horsest has been a three-cornered fight in all the seats only a third of the council has been a three-cornered fight in all the seats only a third of the council has been a three-cornered fight in all the seats only a third of the council has been a three-cornered fight in all the seats only a third of the council has been a three-cornered fight in all the seats of the council has been a three-cornered fight in all the seats of the council has been a three-cornered fight in all the seats of the council has been a three-cornered fight in all the seats of the council has been a three-cornered fight in all the seats of the council has been a three-cornered fight in all the seats of the council election will be contested by 59 mentary seats, and in three of them there are sitting SDP or Liberal MPs.

government elections are generally going well.

Agreements have been reached on the division of seats in about 85 per cent of the six metropolitan and 103 non-metropolitan district councils, where there will be elections in May.

Of the 32 London boroughs, there are firm agreements between the

agreements between the Liberals and SDP in 15, and negotiations are nearly complete in eight.

plete in eight.

There are only three areas of conflict in the capital: Richmond, where the Liberals believe they can win nearly every seat and are reluctant to concede more than a few to the SDP; Hackney, where negotiations got off to a sticky start and there is argument over who should fight in Shoreditch; and Harrow, where there is a and Harrow, where there is a serious possibility that there will not be any agreement.

The SDP has high hopes of retaining its control of Isling-ton. The alliance is also looking for victory in Lam-beth, where there will be 43 SDP and 21 Liberal candidates, Camden, Hammer-smith and Fulham, and

Magistrates' Court, Sussex, yesterday, when he admitted driving with excess alcohol in his blood.

The Birmingham Metro-

days shows that, in contrast to the difficulties over sharing out parliamentary seats, negotiations between the two parties in the alliance on this summer's local government elections are generally going well.

The Liberals have achieved an ascendancy in some of their traditionally strong areas. In the Liverpool Metropolitan Council election there will be 27 Liberal candidates and only six Social Democrats. However, that is balanced by a larger that is balanced by a larger number of SDP candidates for most of the district council elections in Tyne and

> Surrey agreement The two parties also announced yesterday that they have reached agree-ment on the sharing of parliamentary seats in

Surrey.
The SDP will fight four (Chertsey and Walton, Guildford, Reigate, and Spelthorne) and the Liberals seven (Dorking, Epsom and Ewell, Esher, Farnham, Surrey East, Surrey North West, and Woking). All 11 seats in the county are at present

held by Conservatives.

Although the Liberals have gained a numerical superiority, it is at the expense of giving up to the SDP the seat they are most likely to win in the county. Chertsey and county. Chertsey and Walton is the twenty-ninth Liberal seat in Britain with prime winning prospects on the basis of the 1979 general election figures.

will carry the alliance banner into the London borough basis. In Manchester, where the whole metropolitan district council comes up for the whole metropolitan district council cou Significantly, in all those

cornered fight in all the seats only a third of the council comes up for reelection, the borough.

A survey carried out by division will be 15 Liberals difficult areas known to the Times in the last few and 14 SDP.

The Liberale have achieved Association of Liberal Coun-The Liberals have achieved cillors are Wyre Forest (Kidderminster) and Cam-

bridge. Mr Ian Wright, southern region organizer for the SDP says: "I have yet to receive a

says: "I have yet to receive a phone call from any local party saying that they are likely to put up candidates against the Liberals".

Both party organizations are impressed at how well the local election negotiations have gone. Mr Wright puts it down partly to the pressure of time imposed by the May deadline, which has concentrated minds in a way that has not happened with the much more delicate parliamentary negotiations. mentary negotiations.

Mr Tony Greaves, secretary of the Association of Liberal Councillors, feels that the success of the local government negotiations is due to the fact that they were left to lucal people, with a minimum of interference from on high.

"Where there have been difficulties, it has nearly always been because the central party office or an MP has intervened", he says. "I feel that is a lesson that the parliamentary. parliamentary negotiators should learn."

Mr Greaves says that in most places the SDP have been happy to let Liberals fight those wards in which have built up a campaigning strength over a long period.

Lord George-Brown is banned Lord George-Brown, the stage he came perilously George-Brown told the officformer Secretary of State for close to colliding with a
Foreign Affairs and Labour parked car. A little later he
of wine about half an hour
MP for Belper, was banned from driving for three years
and fined £200 at Hailsham
Mr Lavelle said the police
Magistrates' Court Sussey. when tested gave a reading of

decided not to stop Lord when George-Brown because of the 193. heavy rain and high winds. Mr Christopher Stredder, his blood.

Lord George-Brown, aged 67, was nearly two and a half Willingdon Lane, Jevington, to say he profoundly regrets times over the legal maximum, with a blood akcohol reading of 193mg, the court was told. He had been convicted of a similar offence in September. 1973.

The side of his cortage.

The cortage is that after such a distribution of the cortage in public service behind him he now has to plead guilty to this offence in September. 1973.

At the time of the recent



A touch of spring: Mrs Juliet May and Miss Jill Diamond of St Mary's, Isles of Scilly, with armfuls of flowers destined to add a splash of colour to snow-white mainland Britain.

only, Shell claims

would not return at a later

stage to apply for production

in the New Forest in which

the company is interested for

exploration purposes, but he declined to disclose their

THE TIMES THURSDAY JANUARY 14 1982

Fears that successful oil posal to go farther than exploration in the New Forexplorations.
est, Hampshire, might lead to The bore hole would be a rush of drilling and capped and sealed after the production applications in assessment of the potential

this environmentally sensi-irrespective of what was tive conservation area found. The Denny Inclosure brought vigorous opposition would then be restored to its from both national amenity natural and unsullied state. groups and local inhabitants Whatever Shell's immediat the public inquiry in ate intentions, there was no yndhurst yesterday. assurance to allay the fears
There were suspicions that of conservationists that if oil Lyndhurst yesterday.

other oil interests, including was discovered the company British Petroleum, were waiting on the side-lines to see the results of the Shell application to drill an exploratory bore hole at the there were three other areas Denny Inclosure, in the New

Elm.
Denny Inclosure is an area
fenced off to of the forest fenced off to prevent grazing by ponies, deer and cattle so as to allow the planting of young oaks and conifers. Shell UK suspect that a maximum of about 50 million barrels of oil lies in what is called geologi-cally the Lyndhurst struc-

Oil bore exploratory | Dealers to surrender auction evidence

By Frances Gibb

Dealers has capitulated to the Office of Fair Trading and agreed to hand over the body of its evidence on the buyer's premium charged by auction-

In a confidential newsletter to members Mr John Baskett,

The Office of Fair Trading will now be able to proceed with its investigation into wheterh Sotheby's and Chrislicences."
Dr Brennand agreed that

whereabouts.

Pressed by Mr A. F.
Holford-Walker, national At the same time the society's executive committee says it is to consider asking Parliament to outlaw the premium, which is charged in national secretary of the Council for the Protection of Rural England, to say why Shell was prepared to spend £1m on an exploratory bore hole when they were suggesting

In November both the society and the British Antique Dealers' Association that production might never be proceeded with. Dr Bren-nand said that the risk of

the society chairman, says that the public interest must be taken into account, and that had influenced the Society's decision.

tie's colluded over the introduction of the buyer's pre-mium in 1975 and whether they were in breach of fair trading practices.

addition to the bammer price.

The Society of London Art in September after the auc-lealers has capitulated to the tion houses agreed to reconsider the premium.

But in December, Sotheby's announced it was keep-ing the 10 per cent buyers' premium and increasing-vendors' commission charges from 10 to 15 per cent on items worth less than £500.

Christie's, on the other hand, announced that from January 1 last the buyers' premium would be cut to 8 per cent and the vendors' premium increased from 10 to 12' per cent on items worth less than £1,000. Mr David Mason, chairman

of MacConnal-Mason, the London dealers, who has been a leading critic of the trade organizations for their tardiness, said yesterday that he was delighted at the Society's decision and had no doubt that, the OFT would find against the auction Mr Andrew Faulds, the opposition spokesman on the arts, who has pressed for the

prosecution, said two police officers saw Lord George-Brown driving an erratic course in his Singer Gazelle in his Singer Gazelle at Polegate, Sussex, at 9.20 pon September 19 last.

The officers turned round and followed his car. "At one Change to private firms

At the time of the recent of the recent of the recent of the came down officers and polegate in his Singer Gazelle and sold was purchase in a shop". Mr Layelle soid Lord Shell's Land and Western officers turned round and polegate in the had clipped a lamp-post in officers both Lord George-Brown's mother and wife had over the evidence, said yesterday. "I am glad the company. The came down officers they had assembled to fight Christian ever the result of the exploration for the country country cottage. He had all."

Shell's Land and Western of Schell's Land and Western of the risk of losing exploration money was production fight christian over the evidence, said yesterday. "I am glad the company. The control of Fair Trading, to containing over the evidence, said yesterday. "I am glad the company. The control of Fair Trading, to containing over the evidence they had over the evidence that company. The control of Fair Trading, to containing over the result of the exploration and over the evidence they had over the evidence that company. The control of Fair Trading, to containing over the result of the exploration and over the evidence they had over the evidence that the company. The control of Fair Trading, to containing over the result of the exploration and over the evidence they had over the evidence th

NEWS IN SUMMARY

Anger over lecturer's £110 bill

Oxfordshire County Counwhy it paid £110 for expenses to a lecturer at a two-day public speaking seminar for 12 staff (Our Oxford Correspondent water) pondent writes).
The firm of management

The firm of management and training consultants who sent-the lecturer were paid foot the two days and the lecturer received f110 for travelling expenses and an overnight say in Oxford.

As single rooms at the city's best-hotel cost f27.50 a night, including VAT, service and breakfast, councillors want to know why the expenses came to [110.

Mr John Power, a Labour county councillors, taid: "At a time of public spending cuts I think it is wrong that the council should be paying for this type of exercise. We must have a full explanation and breakdown of costs."

Bomb inquest adjourned

An inquest into the death of Amir Amani, aged 19, a student, and Hassan Taher, aged 24, a labourer, in a car bomb explosion in Conbomb explosion in Con-naught Square, Paddington, on December 13, was further adjourned until today at Westminster's Coroner's

Court yesterday.

Dr Paul Knapman, the
Coroner, said that the inquest would be adjourned
again today for technical
reasons.

CB woman dies in road crash

What is believed to be the first fatal road accident involving citizens' band radio was disclosed yesterday by Derbyshire police. A young mother drove out

of a lane on to a main road while transmitting and was killed by a lorry at Spinkhill, near Chesterfield.

£142,000 drugs found on beaches

Drugs with a black market value of more than £142,000 have been washed up on Norfolk and Suffolk beaches, a customs spokesman said yesterday. Three hessian bags containing a total of 100lb of cannabis resin, have been washed up at Great Yarmouth. A fourth package, found at the high water mark found at the high water mark near Lowestoft, contained

to cost taxpayer £10m

By Anthony Bevins, Political Correspondent

A ministerial decision to hive off the administration of road construction work to private consultants will cost the taxpayer up to £10m in the current financial year.

The hidden cost of the denationalization move, with continuing losses in future years, has been revealed in a report written by Mr Gordon Downey, the Comptroller and Auditor General. He says that responsibility for £2,000m of road contracts, organized by the Ministry of Transport, has been transferred to 15 consultant engineering firms "despite the extra costs involved".

The report, which will be considered by the Commons

The report, which will be considered by the Commons Committee of Dark!

Committee of Public ing engineers than viable Accounts, shows that an estimated £4m will be paid out in redundancy money to figures, the extra costs could about 1,700 staff. Mr Downey to the like MPs: "Since many of current war with a similar out in redundancy money to about 1,700 staff. Mr Downey tells MPs: "Since many of the staff had been reemployed by consulting engineers, on similar duties and often in the same location." current year, with a similar "penalty" next year, which would "probably" diminish in future years. A review of the work of the subunits was launched in 1979 because location, I asked the depart-ment what steps they had taken to reduce the incidence cutbacks in the road building programmes undoudtedly made the subunits less ef-

Channel Four 'boon to programmes market'

By Kenneth Gosling

Channel Four had done a valuable job in creating a more independent market in television programmes, a BBC executive said yesterday:

Mr Roger Laughton, head of the BBC's network features department, added it was a myth that the BBC was not interested in independent producers. "We are interested in anyone who comes the programmes in which Dressen."

Among the BBC's plans announced yesterday are a new series of the weekly film rewise of the weekly film rewises to be shared by four presenters, Maria, Aitken, Glyn Worsnip, Miles Kington and Tina Brown, from whom, with two others who have been on the programme, a regular presenter will be rewises.

producers. "We are interested in anyone who comes
to us with a good programme
idea", he said.

Mr Laughton, whose department deals with three
specialist areas, rock and pop
music, film and television,
was announcing programme
plans for the coming year.

There will also be 15
programmes in which Dr
Jonathan Miller will meet
leading psychologists; a
series of birthday tributes to
people in the arts and
entertainment, starting with
series of Writers and Places,
starting with lan Morris on

Channel Four had done a Among the BBC's plans

plans for the coming year.

The success of the independent sector has already received favourable comment this week from Mr Jeremy Isaacs, chief executive of Channel Four.

He announced that the channel would easily fulfil its task of taking not less than 10 hours a week from the independent sector and said it was his judgment that they would take not 500 but 750 hours of programmes a year from that sector.

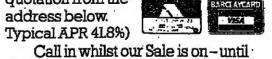
Series of Writers and Places, starting with Jan Morris on Wales, and a series of river journeys planned. The BBC also plans, in its sixtieth year, to mark radio's "golden age" with a special programme; and, still in nostalgic vein, it is trying as an experiment a television strip cartoon based on the Daily Mirror's famous wartime character and morale booster, Jane. "We shall run it for a week at first to see how it goes", Mr Laughton said.

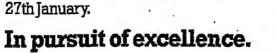
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£15 grands (contact L Hobson).

How Mark Thatcher came out of shadows year signed a contract with by Peter Waymark Prosury Incorporated, the American management firm, which also has several lead-ing tennis players on its

of redundancy payments in

Mr Mark Thatcher's career has illustrated the advantages and difficulties of growing up in the shadow of a famous parent. Being the Prime Minister's son has obviously helped him in his business and motor racing activities, while putting them under

great public scrutiny.

In Pebruary, 1980, the news that he had agreed to model clothes for a Japanese firm in return for motor racing sponsorship brought protests from Labour MPs in

His mishaps on the race other driver. track have given far wider the has tended to react defensively to the media, another enthusiastic amateur and declining to give details headlines. He has been in of Britain's most eligible driver. He escaped unhurt about his company beyond steady demand from combachelors, with constant when his Ford Escort saying that it is involved in panies wanting him to enpupular press speculation crashed at Mallory Park in international marketing. But



protests from Labour textile areas. At first he reacted angrily and said he might leave Britain rather than give up racing. He later announced that he had dropped plans to race in Japan and had accepted British sponsorship, after discussing the matter with his mother, who had not give, him any advice.

**Missing: Mark Thatcher and Charlotte Verney

Missing: Mark Thatcher and Charlotte Verney

1979 and last year was he did deny that he was involved in a collision during receiving as much as £40,000 for a series of commercials to recriminations from the other driver.

Description

Cutty Sark whisky.

Business absorbs three quarters of his time, but his other driver.

have had he been just rarely granting interviews another enthusiastic amateur and declining to give details

"He is promotable in the sense that he is a motor racer and the son of Mrs Thatcher. He is also a rather bright and aggressive person, and we like that." On the race track he has a reputation for being a somewhat intemperate driver and

Mr Stephen Disson,

Prosurv executive, explained:

what intemperate driver and although he has competed in several classes his record is undistinguished. Two attempts at the Le Mans 24-Hour Race, in 1980 and 1981, both ended in crashes, though in the second his codriver was at the wheel. Tall, slim and good look-Cutty Sark whisky.

Business absorbs three quarters of his time, but his promotional and racing activites have caught most of the of the Prince of Wales as one

French Cabinet cuts working week and extends holidays

From Charles Hargrave, Paris, Jan 13

The Cabinet today and precedent since 1936" and proved decrees reducing the the first step towards the statutory working week by objective of a 35-hour week in 1985.

In 1985.

The reduction of the work-from from from the control of the work-from from the control of the control of the control of the work-from from the control of ing paid sunnai holidays. The reduction of the work-from four to five weeks and exempting from social secur-ity contributions firms fugither than the security contributions firms fugither than the security of the securit

respectively. The two decrees were adopted under the framework better use of their plant than was possible under the framework better use of their plant than was possible under the 40-Assembly at the end of last year which enables the Government to promulgate security contributions would

whole series of others between now and the end of March concerning temporary work, the spealled "solidari-Government which give financial incentives to firms financial incentives to firms which take on additional labour, professional training for school leavers, the lowering of the retirement age to 60, and extended rights for joining works councils.

The Government attaches

great importance to these reforms which are designed to satisfy the impatience for change of the ordinary worker in ways that nationa-lization, decentralization and the abolition of the death penalty adopted last year extraordinary session of the National Assembly is a Bill

could not.

The decree procedure was adopted to avoid the delays of the normal legislative Palace. scribed today's decrees as pressure social advance without 10 million

Government to promulgate security contributions would social reforms without recourse to parliamentary approval.

They will be followed by a for those reducing it to 37 hours.

The aim of the cut in the working week is to create jobs; but employers are highly sceptical.

Whatever its economic results, it shows that the

Government is determined to press on with reforms at a steady pace, regardless of pressure from some minis-ters and employers for a

pause.

The Government also has the vast ambition of reconciling landlords and tenants, who have been at war since the First World War when rents were frozen for the

which substantially extends the rights of tenants, but it has been toned down under pressure from the country's



Indonesia recalls Ambassador to Philippines

The Indonesian Govern-ment has recalled Lieutenant-General Leo Lopulisa, its Ambassador to the Philip-pines, for consultations after he made a statement in Manila asking President Marcos to take formal steps to renounce his country's claim to the Malaysian state of Sabah. The ambassador

made similar remarks last were before the claim in September soon after his 1962; appointment in Jakarta. President Marcus told the President Marcus told the meeting of heads of govern-ment of the Association of today in a interview with the Mamia daily, Bulletin. He said only an official repudation of the claim to Sabah could bring Malaysia- Philip-pines ties back to what they

South-East Asian Nations is felt most strongly (Asean) in Kuala Lumpur in Jakarta and some diplon 1977 that his Government would take definite steps to drop its 15-year-old claim to cial thinking.

Asean officials say the strained relations between Kuala Lumpur and Manila have restrained closer links among Asean countries. This

Why Boris finds his! marvel kept on ice

From Michael Banyon Moscow, Jan 13

Every winter 60,000 people in Sverdovik, in the Urals, fall over on icy pavements, breaking limbs and suffering concussion, cuts and surrering concussion, cuts and bruises and for the past 33 years a 70-year old pensioner has been batting not the elements but. Soviet bureau,

cracy to produce a machine he claims would reduce this Boris Sysoger took qui's patent on his home made ice scraper in 1948. His invention, which beats as it sweeps as it cleans, consists of a mass of whiching blades that chop up ice and impacted snow but somehow manage to leave the synhalt under-

snow but somehow manage to leave the aspialt under-neath untouched. It can be used on paths and pavements, and the head of the municipal street cleaning serivce testified that it could do the work of dozens of doornes, the stoutly padded-alderic ment and women who

dvorniks, the stoutly padded elderly men and women who daily attack the ice with picks and scrapers. He estimated that one dvornik, even working till his shirt ran with sweat, could clear only 150 yards of pavement an hour. Unfortunately Mr. Syscyev's first attempt to mass-produce his technical marvel came to an abrupt end when somebody assumed the Emmet-type contraption was

when somebody assumed the Emmettype contraption was a piece of strap, and carted if away. Its inventor was upt danned, however. Syer down had just founded a scientific research institute to produce labour saving desire of the Units Shurge. devices of the Urals, Siberia and the Far East. He built a new prototype and took it

The seven scientific inven-The seven scientific inventors were not impressed. They said it did not clean pavements to the required degree of sliplessness. He made some refinements added a blade or two allowing the machine to scrape out corners and swiczard angles, and left it for testing.

and left it for testing.
This went on intermittently for the next 20 years without any conclusive result. Finally in 1977 the laboratory, which had still to invest. my commercially viable de-vice, reported that the ice-scraper could in theory

scraper could in theory! clean pavements, but in view of his madequacies needed additional refinements.

The Soviet bureaucracy seems to have a peculiar bias against small snow-cleaning machines. Two years ago the press recounted an equality manmes. Iwo years ago me press reconneed an equally bizarre story of a Musicoving who made a fortune whizing about on a home made morning about or a home made morning work of all his fellow downiks. He too was mable

doorniks. He too was unable to get his invention into production.

At the Soviet party congress in February Mr Brezhnev kamented his country's inability to put industrial innovation into practice. And today, on Moscow's icy streets, one could only agree.

Army chief joins coup trial panel

From Richard Wigg Madrid, Jan 13

Madrid, Jan 13

The army general whom the Calvo Sotelo Government put in charge of Spain's crack Brunete armoured division, stationed around Madrid after last February's comp attempt, has now been nominated a special counsellor to the Supreme Military, Tribunal which will judge accused officers of that division in the forthcoming trial.

rial. General Francisco Carbo-General Francisco Carbonell, formerly a co-director of the combined Spanish-United States general staff, last month ended a temporary posting in command of the 12,000 strong armoured division, created by Franco to dominate this capital.

Troop movements on Madrid from the Brunete division on February 23 provided one of the most dramatic moments of the coop attempt.

Meanwhile General Jose Juste, who commanded the

Meanwhile General Jose Juste, who commanded the Bruners division at the time of the coup, has now voluntarily moved to the reserve list after being three times passed over by the Coveryment for promotion in secent months. He has made this works reserve are supply the control of the country of the coveryment of the coveryment of the coveryment.

months. He has made this public gesture arguing thus was the only way left to preserve his honous attention to king hum Carlos to intervene.

The Government removed him from the Bruneta division command but he has never been charged with military rebellion.

General Inspe.

defended his conduct last year, maintaining that when he discovered the compattempt was underway he first played for time and them helped army headinasters to call back Brunete troops. Bur he admitted he was not able that night to talk to General

he admitted he was not able that night to talk to General lose Gaheiras, the army cities.

The army's regional commander in Valladolid, north of Madrid, has publicly denied that any of his officers have been meeting extreme right-wing civilians. The denial came after press reports that Senor Francisco Laina, director of state seturity at the Anterior Ministry, approved tapping the telephones of the Valladolid cavalry academy.

THE BEST VIEW IN LONDON.

ARRIGO LEVI How Italy lives with terror

The kidnspring of the American Brigadier-General Dozier by the Red Brigadier of has brought once again to half a large mumber of American journalists interested in the "Italian crisis". This had not happened for a couple of years, which is a good sign. In the late 70s terrorism and other threats terrorism and other threats to liaban democracy had allowed many foreign journalists to enjoy long, which, while being in agony as they wrote, remained a very pleasant place to file copy from.

today by the inquiring newcomers are usually the following: Has there been a recrudescence of terrorism in Italy after a period of respite? Has the counterterrorist action by the state failed? And does terrorism remain a serious threat to Italy's political stability?

The answer to the first question can be given in statistical terms: In the first 11 months of 1981, the number of deaths attributed to learnism was 27. This must be compared with 25 deaths in 1974 (the year of

must be compared with 25 deaths in 1974 (the year of the bomb against the Italicus train), 5 in 1975, 9 in 1976, 10 in 1977, 25 in 1978 (the year of Moro's murder), 22 in 1979 and 124 in 1980 (including the more thair 90 deaths caused by the bomb at Rologna railthan 90 deaths caused by the bomb at Bologua rail-

the bomb at Bologna railway station).

These figures tell us that reprovism is still as murderous as it has been during the past five years. Another set of figures, referring to terrorist actions, however, more encouraging. There were 474 acts of terrorism in 1974, 528 in 1975, 1,198 in 1976, 2,128 in 1977, 1,198 in 1978 (the record year), 2,366 in 1979, 1,264 in 1990 and 791 in the first 11 months of 1981.

The number of terrorists now being held in jail (either undergoing trial or already judged by the courts) had reached, by the end of October 1981, the imposing figure of 1,496. Of these 1,109 belong to the extreme left (including 444 members of the Red Brigades) and 387 are from the extreme right.

extreme right.

To sum up there has been no recrudescence of terrorism, but no respite either. There has been on the whole less terrorism in Italy in the last two years than there had been in the last 70s, but of a more murderous kind. Still, the mumber of suspected terrorists is so high, and so is the number of terrorist actions of all kind, that one can only agree with Signor can only agree with Signor Spadolini, the Prime Minis-ter, when he says: "The war

the counter-terrorist action by the state has failed? I think that the correct reply would be the same that could be given to the same question if it referred to Britain's anti-terrorist action in Northern Ireland (although conditions are totally different, the level of terrorism being much lower in Italy, where it has had no real consequences for real consequences for everyday life). That is to say the security forces have succeeded in containing the spread of terrorism, but they have not destroyed

but they have not destroyed it.

But while terrorism has not been able to function as a detonator provoking a wide political explosion and the destruction of Italian democracy, the detonator itself has not been eliminated and keeps detonating.

Probably we fear the political consequences of terrorism less than we did three or four years ago: perhaps because we have got used to it, or because we no longer believe that it can keep growing. The political forces themselves consider terrorism poses less of a threat-to Italian democracy than it did a few years ago. years ago.
But terrorism remains

But terrorism remains one of the "four energencies" threatening Italian stability, as Signor Spadolini keeps saying (the other three being inflation, corrugitor and the world situation).

Both President Pertini and Signor Spadolini keep stating that there exist undeniable links between Italian terrorism and other subversive groups operating

Italian terrorism and other subversive groups operating in Western Europe, although it is not certain (and in my view still unlikely); that there exists a foreign "central" guiding Italian terrorism. But there is continuing foreign support for Italian terrorism. Both Perrint and Spadolfini have left no doubt that these foreign links are with Libya as well as with Eastern European countries, including the Soviet Union.

© Times Newspapers Ltd.,

Arrigo Levi last week dis-cassed long-term dangers for Israel from Mr Begin's policies. Lines omitted from his arricle stated that most independent observers were conviced of this, among them the signatories of a 1981-report to the Trilateral Communicion on the Muddle East, who wrote: "Indefinite ominimation of Israeli occu-pation of the territories would be a prescription for war, not peace".



Tonight at 7.30 sees the British TV Première of the beautiful

and nostalgic motion picture, THE WAY WE WERE. It stars two

So look at the bright side this evening.

passing of time.

of the biggest names in Hollywood, Barbra Streisand and Robert Redford as ill-matched lovers whose fortunes change with the

THE TIMES THURSDAY JANUARY 14 1982

FIRST, WE CREATED ANEW SPACE-SAVING POWER-PACKED ENGINE.

THEN, WE BUILT A UNIQUELY ADVANCED CAR AROUND IT.

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intermittent wipe (hatchback)

☐ Rear window wiper/washer □ Interior boot/tailgate release ☐ Interior fuel lid release Li Lockable illuminated glove box

☐ 2-speed wipers with variable

☐ Two remote control door mirrors ☐ Push-in button heating/ventilation ☐ Advanced display of warning ☐ Side window demisters ☐ High grade cloth uphoistery

NEW STANZA 16 GL STANDARD EQUIPMENT

range of family and sporting cars luxuriously equipped even by Datsun

ALL NEW ENGINE-GIVES UP TO 51.4 MPG!

For the Stanza, Datsun developed a special transverse single

Using a computer, we created a new cylinder block design

which gives the engine a unique combination of qualities - it's extremely light and

matic gearbox-and there's the option of an electric sunroof.

compact and yet it's also uncommonly sturdy and powerful.

for giving you exceptional value for money.

overhead camshaft engine.

standards. Some models even have power steering, alloy wheels and an auto-

The prices are extremely competitive - reinforcing Datsun's reputation

DPush-button LW/MW radio □ Quartz clock ☐ Passenger seat walk-in device (3-door)

☐ Warning chime for 'lights left on'

Here is the all-new Datsun Stanza - a

range of 3-door hatchbacks, 4-door saloon

and drives the front wheels. So the Stanzas

are roomy - very roomy. And economical -

lightest 1600c.c. engines in the world!

victories in the East African Safari Rally.

Now the all-new Datsun Stanza is here in a 9-model

very, very economical.

and 5-door hatchbacks, powered by one of the

The engine is transversely mounted

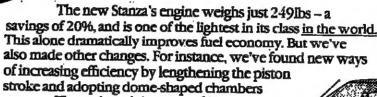
Although they are new from bumper to bumper, they inherit the tough

pedigree of the Datsun Violet saloons that have, for the past three years, achieved crushing

All new

□ Tinted glass ☐ Adjustable front head restraints 🗆 Luggage area lamp ☐ Maintenance free battery ☐ Halogen beadlamps

GOVERAMENT FUEL CONSEMPTION TESTS, MEG (LITTES PER 100EM) DATAUNSTANZA LOGE 5 DOOR HATCHBACK CONSTANT SAMPH (190EM) HI ST LOUIS DERIVED CHILD CONSTANT SAMPH (190EM) HI ST ST LOUIS DERIVED CHILD CONSTANT SAMPH (190EM) HI ST ST LOUIS DERIVED CHILD CONSTANT SAMPH (190EM) HI ST ST LOUIS DERIVED CHILD CHILD



The end result is a true 1.6 litre 100 mph car which can deliver as much as 51.4 mpg at 56 mph.

When you compare with other 1.6 litre cars, like the Ford Cortina, which gives you 39.8 mpg at the same speed, or even smaller engined cars like the Volvo 343 with 42.2 mpg, you realise the exceptional economy that Datsun have achieved with this powerful new engine.

ALI-NEW FRONT WHEEL DRIVE-LIGHTWEIGHT AND PRECISE STEERING

The new Stanza has front wheel drive for sheer "roadability" and crisp, safe driving. Yet the lightness of the Stanza's engine means that, even in a medium-sized saloon, we can use rack and pinion steering to achieve the precise and responsive handling of a smaller car. As an indication of its manocuvrability, the Stanza has a wall-to-wall rurning radius of just 17.7 feet!

ALL:NEW GEARBOX AND TRANSMISSION-MORE EFFICIENT

We've extracted even more economy from the Stanza by keeping the transmission lightweight and simple and fitting it in line with

the engine to avoid energy waste. On all models, 4th gear is an Economy-Overdrive gear. And on most models there's a 5-speed gearbox on which both 4th and 5th are Economy-Overdrive gears!

ALL NEW SUSPENSION-ULTRA SMOOTH

The Stanza's newly developed dual suspension system is fully independent.

It is designed to work in Compact transverse engine makes the Stanza outstandingly roomy. two ways. On good road surfaces, soft insulators supporting the strut rods absorb all of the fine vibrations. On bad road surfaces, another system comes into operation: severe jolts are led through a series of springs and absorbers and then finally absorbed by rubber bumper pads. The new Stanza gives the smoothest ride that Datsun's

ALL: NEW SPACE **UTILISATION-MEANS** MORE COMFORT

computerised technology

can achieve.

By making the engine transverse and very compact, Datsun have left a vast amount of room inside the car for passengers and luggage.

There's plenty of room in the front and the back. The Stanza is longer and wider inside than either the Cortina or the new Cavalier - vet its overall dimensions are more compact!

ALL-NEW AERODYNAMICS-FOR OUTSTANDING ECONOMY

The compact size of the Stanza's new engine allows us to keep the nose of the Stanza very low and move closer than ever towards the perfect aerodynamic shape.

The Stanza hatchbacks have an aerodynamic drag coefficient of just 0.38 - well below that of many famous sports cars. An important contribution to the class-beating 51.4 mpg at 56 mph of the Stanza 3-door!

1.6 5GL 5-door hatchback

ALL NEW SOUND INSULATION -SEALED AGAINST NOISE

The aerodynamics of the Stanza keep wind resistance and therefore wind noise right down.

The floor and roof both have triple layer insulation.

To achieve a quiet ride, Datsun have paid their usual scrupulous attention to detail. There are over 20 different sound prevention devices on the Stanza - like the flexible coupling at the exhaust or on the soundproof casing round the heater blower.

ALL-NEW FEATURES-AS YOU'D EXPECT FROM DATSUN

The Datsun Stanza is a luxurious family car with a long list of built-in features. These include variable intermittent wipers with choice of 2, 4, 7 or 10 second intervals, push-button heating and ventilation, two remote control door mirrors. interior boot and fuel lid release, maintenance free battery, folding split rear seat and rear window wash/wipe on the hatchbacks, and much more including, of 5-door 1.6 GL course, LW/MW push-button radio.

£4,695 Remember too, that these are not extras - they won't cost you a penny more!

\$4,485

Superb aerodynamics help achieve up to 5Li mpg.

From £4,485 the Datsun Stanza represents real value for money - the kind of value that is only made possible by the advanced technology and resources of Nissan-Datsun, the third largest car manufacturer in the world.

The Datsun Stanza is a totally new car built to satisfy world requirements and perform reliably in all conditions anywhere in the world.

Come to your Datsun dealer and have a test drive today.

From Christopher Walker, Jerusalem, Jan 13

The Israeli Government see it for what it is — sutonomy." The Israelis have mise m its opposition to the Egyptian demand that the of the talks that they view of East Jerusalem should be allowed to vote in the proposed autonomy council the land on which they live. or hast jerusaken shound be the 1.2 minuted to vote in the West Bank and Gaza and not proposed autonomy council the land on which they live.

Israel defended its position official document

Mr Yitzhak Shamir, the Foreign Minister, rejected opposition Labour Party suggestions that the Government should make concessions to make a quick autonomy agreement. The Israelis reject the Egyptian view that the former Arab sector of Jerusalem is part of sector of Jerusalem is part of the West Bank, emphasizing in all public comments that it is the unified capital of largel.

talks. Briefing correspondents, the Israeli official acknowledged that there were essential differences with Egypt on the meaning of autonomy. These, rather than discussion of detail, would dominate Mr Haig's hectic round of official

Pressed to outline the differences, the official said: "It is a basic difference of interpretation. Egypt sees victory. This is the first stage autonomy as a step towards in the process of stopping the self-determination while we withdrawa!".

for the occupied West Bank and Gaza strip.

A senior Government official, speaking on the eve of the arrival of Mr. Alexander Haig, the American Secretary of State, said that no change could be expected in the Government's position on the issue, one of the key subjects dividing Israel and Egypt on autonomy.

The subject of the subjects to set a new pattern for the international definition of autonomy.

Is the unified capital of Haruvit will now not be dismantled, while those already taken down will be shipped out without opposition, under the agreement reached with senior Army deadlock in the autonomy talks. Briefing correspondents, the Israel's

The compromise came 48 hours after extreme Jewish nationalists invaded the site and began to erect tents and occupy buildings. By this morning, several hundred protesters had gathered for what was expected to be a confrontation with troops. As militants began to leave, one leader of the Stop the Withdrawal from the Sinai Campaign said: "We consider this an accomplishment and a victory. This is the first stage victory. This is the first stage

China fights inflation

Peking runs short of loose change

From David Bonavia, Nanking, Jan 13

adequate supply in this former capital of China except coinage. For reasons

enterprising person has found the coins can be melted down and worked into products costing more than their face value is a matter of the control of the con speculation. Chinese post office workers became ex-tremely irritable when I

As substitutes for the coins, tiny paper notes with a coins, tiny paper notes with a and white television sets, face value as low as 0.3p in watches and synthetic knit stering nave gone into circulation recently having previously been circulated mainly in Tibet and in Chinese Central Asia, where the herdsmen barely partici-

pate in the cash enconomy.

The use of foreign currency certificates, introduced about three ago to counteract black marketeering, is also in chaos. For almost anything except air tickets and luxury

certificates were introduced in 1979.

Nanking has long been a noted centre of black market dealings — its population being familiar with the manipulation of prices and supplies since the time of the Nationalist Government of the late 1940s and one of the most spectacular inflations in the history of money.

After a long period during which the Communist Party

which the Communist Party and Government insisted that there was no inflation in China, the growth of the money supply has alarmed the authorities to the point

where Peking has just imposed draconian price No prices of anything, anywhere, except at small rural markets, may be raised without official sanction.

result of the recent round of inflation in China, but it makes nonsense of the curnobody seems able to rent economic reform, in in, the standard alu-which flexible pricing actum coins have almost cording to market demand peared from circulation. was planted as an essential

Peking has suffered short-ages of some foodstuffs in recent months and this has led to panic buying and hoarding. The Government has now promised that food prices will not rise, and has ordered price cuts of between 10 and 20 per cent for transistor radios, black

At Nanking's biggest de-At Nanking's biggest de-partment store, people are jostling three-deep at the counter to inspect television sets and radios. But, of course, nobody is buying until the day after tomorrow when the price cuts come into effect and when there will be something like a riot.

In the street markets, or imported goods, the normal Chinese currency is monly earen vegetables have been in effect for more than six months. But such delication of the cartificates will give change in normal currency. This has resulted in a bigger black market than before the certificates were introduced in 1979.

In the street markets, controls on prices of commonly earen vegetables have been in effect for more than six months. But such delicates as lotus root and fruits are not controlled, since they are considered inessential.

Pork seems abundant, with working people taking home labs which would be general.

are considered inessential.

Pork seems abundant, with
working people taking home
slabs which would be generous for even a Edropean
family. Pulses, sweet
potatoes and other foods also seem to be in good supply. A locally made bicycle can be bought with ease but people wishing to buy the superior make from Shanghai have to

make from Shanghai have to join a waiting list.

The bookshops have improved their stocks and foreign literature is popular. Pirate translations of Death on the Nile by Agatha Christie, The Day of the Jackal by Federick Forsyth and Sir Walter Scott's The Heart of Midlothian are available. There are plenty of foreign language textbooks, particularly English, and there is keen demand for a new handbook of American Slang.



Tanks taking up position in front of the smashed gate of a shipyard in Gdansk, photographed by Poles on.

December 16 three days after martial law was imposed. The gate has been repaired since

Warsaw hopes for a Solidarity 'without 43,000 officials'

Poland's martial law auth-orities are increasing their efforts to justify the continuing state of emergency with a fresh attack on some of the most prominent leaders of Solidarity, the suspended independent trade union. In a bitter attack on such workers and intellectuals as workers and intellectuals as Mr Jacek Kuron and Mr Adam Michnik, leaders of the former KOR organization, and Mr Jan Rulewski and Mr Zbigniew Bujak, regional leaders of Solidarity, the armed forces newspaper, Zolnierz Wolnosci, claimed that they were nothing more than a "gang of political adventurers".

a meeting of the Solidarity leadership in Gdansk on the day before martial law was proclained the debate showed that what had started as an organization to help ordinary working people had changed into an opposition political party. Its aim, the paper claimed, was to prepare the working people, against their interests, for overthrowing the socialist system and rectiving a hauveois capital. restoring a bourgeois-capital-

hoped that after these experi-ence the working people of Poland would understand that "the time will come to organization, a purely work-ing class organization; with-out false advisery, without developed regional struc-tures, without 43,000 officials and without political

In what appeared to be an attempt to meet public criticism of the derth of news about what is happening inside Poland, Warsaw radio

was about to be published pope had exchanged letters under the editorship of a former government press spokesman

Mr Jozef Barecki, the new editor-in-chief, is neither a carions have been released so

spokesman
Mr Jozef Barecki, the new
editor-in-chief, is neither a
hardliner nor a radical reformist in Polish terms. formist in Polish terms.
Instead, he is very much a middle of the road figure with some liberal ideas and high professional standing.

The new newspaper, which will be published from today under the title Rzeczpospolita (The Republic), is designed to respond to the demand for news about "the work of the news about "the work of the Parliament and the Govern-ment and for a platform for dialogue between the authorities and the com-munity", Warsaw radio said. PAP, the official Polish news agency, reported yes-terday that the swollen terday that the swollen Vistula river was continuing to flood large areas of farmland in north and central Poland. Although the water

level was beginning to drop, it had started to affect winter ri nad started to affect winter
grain growing conditions.
This could cause further
food shortages in due course.
After its first officially
amounced meeting in Warsaw since martial law was
proclaimed, the Polish Politburo yesterday called on all Communist Party officials to step up their efforts to help people in the Plock region, where about 12,000 people are reported to have been

At the Vatican, the Pope as criticized Poland's martial law regulations for preventing Catholic pilgrims from leaving their country to visit the Holy See. Such a ban was a violation of human

Paris focay and tomorrow to try to reach a joint stand on future negotiations about the \$25,500m (about £14,000m) which they are owed. In Cologne, Herr Reinhold Stoessel, president of the Dresdner Bank, said yesterday that Poland was not counting on Moscow to pay counting on Moscow to pay off \$350m worth of interest

Instead, the Comecon Bank in Moscow might underwrite the payment. Herr Stoessel said in a radio interview. He added that this possibility had been raised during a recent visit to Warsaw of Western bankers.

ministers meeting informally in Brussels over the next two days are likely to consider an answer to General Jaruzels-ki's suggestion that Western countries might be asked to receive Solidarity leaders who might be exiled by his military Government. It was made during a meeting with envoys from the EEC on Monday last week.

Mr Leo Tindemans, the Relgian Minister of External Relations, who is president of the EEC Council of Ministers, bas since can-

Ministers, has since can-vassed all other member states about an appropriate reply, but there has been no agreement on a final text. He ban was a violation of human agreement on a final text. He rights, the Pope said. will be seeking this in the The Vatican also disclosed course of the meeting.

Czechs ban wide range of exports

New Czechoslovak regu-lations now prohibit foreign visitors from taking a wide range of foodstuffs and manufactured goods out of

drink, to footwear, bedlinen and children's clothes. Other items such as tents, sleeping-begs and sports equipment can be taken out of the country only with special permission.

Tanjug, the Yugoslav news agency, said: "The list of commodities on which the ban applies is so long that virtually not a needle can be taken out of Czecho slovakia".

The directive also calls for a reduction in the number of Similar restrictions have

slovakia" a reduction in the number or slovakia" a reduction in the number or officials with access to mathematical imposed in recent months by other East European countries to ensure that their limited supplies of consumer goods are available orderly conduct of government did not say for their own people, and are not depleted by visitors from dent's statement did not say neighbouring countries what disciplinary action where shortages may be even would be taken against offenders, but an official said details would be worked out

crackdown both East-Germany and Czechoslovakia introduced measures to restrict shopping expeditions leaks has been illustrated by the fact that Mr Frank. Carlucci, the Deputy Defence Secretary, took a lie detector test as part of a Pentagon investigation took determine with took The Washington Post last week about a secret report dealing with future defence spending. This report said defence costs could be as much as \$250,000m more than present estimates. A Pentagon spokesman

just adopted a new five year plan to restore the country's badly weakened economy, and it is clear that for the foreseeable future the pro-duction of all but essential consumer goods for the domestic market is going to be given a lower priority. The plan emphasizes, instead, the need to cut back

nesses. The Prime Minister sai that the reorganization of external affairs signalled a national effort to pursue aggressively international export markets for Canadian

on energy consumption and on imports.

OVERSEAS

DRIVE BY

CANADA

From Our Correspondent

Ottawa, Jan 13

Canada's External Affairs Department has been radically reorganized in a moyed intended to give greater priority to trade in the development of Canadian foreign relations.

Under a plan announced by Mr. Pierre Trudeau, the Prime Minister, yesterday, external affairs will take over the foreign trade function exercized until now by the Department of Industry, Trade and Commerce. That in turn will take over responsibility for regional economic development programmes in Canada, while retaining its present mandate for industry, tourism and small businesses.

The Prime Minister said the retaining its present mandate for industry, tourism and small businesses.

The Prime Minister said the retaining its present mandate for industry, tourism and small businesses.

The Prime Minister said

The Prime Minister said

Diplomat killed

Diplomat killed

Manboasted of killing Briton, prosecution says

Cape Town. — Mrs Barbara Barnard, the wife of the heart transplant pioneer, Dr Christiaan Barnard, has been granted a divorce in the Cape Town Supreme Court. The couple, who have two sons, were married in 1970 soon after Dr Barnard's first marriage ended in divorce. beirgt.—The bullet-riddled body of an Algerian diplomat was found in south Beirgt. Security forces said that he was Mr Rabeh Kharwa, a counsellor, in his fifties.

From Our Correspondent, Baltimore, Jan 13

last year, ---

NEWS IN

SUMMARY

Yugoslavia

premier

is a woman

Belgrade — Yugoslavia's collective presidency has nominated Ms Milka Planinc,

ment. The official news agenc

Tanjug said that her candi-

daty was supported by the roling Communist Party praesidium, making her appointment a foregone conclusion. There was no word on when she will take over from Premer Preselin Dirac novic. Other bass organizations at praints lamble all lad

tions at various levels, all led by the communists, will discuss Ms. Planine's candi-

Kampala. President Oboto says that the Uganda Govern-ment is committed to return-

shareholding in Uganda Breweries on Amin's orders in 1972 that he would welcome their return to rebuild the Ugandan beer

Seoul publisher

ideals of communism throughout the country. He

denies the charges. Twenty-five other people appeared in court with him.

Moscow De Andrei
Sakharov, the Söviet human
rights leader, has given a
warning that the health of
the imprisoned dissident Dr
Yuri Orlov is in danger and
has appealed for his release.
In an open letter to the

In an open letter to the

European security review conference in Madrid, due to

reconvene on February 9, Dr Sakharov said that Dr Orlov, aged 57, had been in a labour

camp prison for months and "his health, and perhaps his life, are in danger".

Peking. - Peking res-

reking. — Peking restaurants are encouraging couples to cancel elaborate wedding banquets at the Chinese new year later this month in a drive against extravagance, according to the Peking newspaper, People's Daily.

National holidays are a farguring to the for weddings.

favourite time for weddings and many couples have elaborate banquets despite endless official calls for frugality.

Christiaan Barnard divorced again

Wedding bliss

discouraged

\$ 1. To

TANK !

Soviet dissident

in danger

faces death

President

moves to

plug the

From Nicholas Ashford Washington, Jan 13 President Reagan believes his Administration is the

leakiest in history. Since his manguration he has regularly

the newspapers. But apparently to no avail.

During the past week alone The Washington Past has carried three separate stories—dealing with defence spending the sale of aircraft to Taiwan and urban enterprise zones—which were supposed to have been kept.

staff, employees of the state and defence departments and

later.
Just how determined the administration is to prevent leaks has been illustrated by

A Pentagon spokesman said today that other senior Pentagon officials were also

complained to his senior the Cromian Communist the Cromian Communist the Cromian Communist Party chief, to serve as the thorized and sensitive material has found its way into to head a Yugoslay government processing the powspapers. But areas ment

Although some officials and many journalists believe this Administration to be less prone to leaks than previous ones an enraged President has now ordered a crack-down, vowing to use "all legal methods" to investigate government officials who may have disclosed classified information to the media.

Last night the President claiming that manufacized disclosures of classified information had become a "problem of major proportions with the United States Government" issued a statement setting out ground rules to end what he described as "a virtual haemorrhage of leaks".

The directive, based on recommendations by Mr William Clark, the new national shrewholding in Uga Breweries on Amin's pro-

leaks

An 18 year old man the defendant, Mr Michael J. Briessh antiques dealer here last summer bragged to his friends about the crime, and only later tried to cover it in the prosecution rold a jury here yesterday.

"He repeated seath and lister how he had attacked and killed the Englishman in our city." Mr Stephen Tolly, the prosecutor, said on the first day of trial of three men accused of killing Mr Phillip A. Rouse of Somerset.

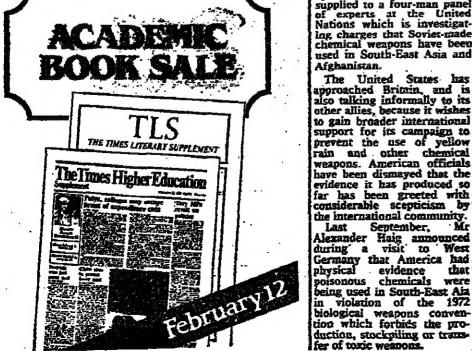
Mr Rouse was shot, as he chased a thief who had grabbed a shoulder hag from his 21-year-old girl friend as the comple and another English companion walked in a stylish Baitimore neighbourhood early on August 22 last year.

Several days after the

last year,

Several days after the widely publicised killing the defendant sold the gun, a 22 could cut off the man on the long barrelled revolver to an acquaintance in order to get rid of the evidence. Mr Tully told the jury.

The prosecution claim him on the ground and shot him? she said.



British aid sought on yellow rain

From Our Own Correspondent Washington, Jan 13

The United States has asked Britain to assist in the collection and analysis of evidence that lethal chemical weapons are being used in South-East Asia and Afghanistan. Mr Richard Burt, director

Mr Richard Bort, director of the State Department's bureau of politice-military affairs, said that British scientists and aid officials were working in Thailand and other parts of South-East Asia to which refugees from Laos and Cambodia had fled. It was possible they would come across evidence of the use of these chemicals, known as yellow rain. He added that British research establishments could also assist in analysing some of the samples of the highly poisonous substances which have already been discovered on trees and rocks in the region.

region. America has accused Viet-America has accused Vietnam of using chemical agents
in remote parts of Laos and
Cambodia. It also maintains
there is compelling evidence
that these chemical weapons
are being manufactured and
supplied by the Soviet Union.
Evidence already collected
by the United States has been
supplied to a four-man panel
of experts at the United
Nations which is investigating charges that Soviet-made

Afghanistan.

The United States has approached Britain, and is also talking informally to its other allies, because it wishes to gain broader international support for its campaign to prevent the prime description of the prime minister announced in Canberra yesterday.

The British and Strengththened republicansism.

support for its campaign to prevent the use of yellow rain and other chemical weapons. American officials have been dismayed that the evidence it has produced so far has been greeted with considerable scepticism by Last September, Mr Alexander Haig announced during a visit to West Germany that America had physical evidence that poisonous chemicals were being used in South-East Aia in violation of the 1972 biological weapons convention which forbids the production, stockpiling or transconsiderance Scepterists of the international community.

Last September, Mr.

Alexander Haig announced during a visit to West

Swapo says Walvis Bay is part of Namibia

From Stephen Taylor, Salisbury, Jan 13

Walvis Bay was an integral of a settlement in Namibia part of Namibia (South-West began in London today Africa) and the South West between leading American Africa People's Organization and South African representatives (Our Foreign Staff way that it is flighting for the write).

The content of the disputed territory, brown Chester Crocker, War Sam Nujoma, Swapo's president, said today.

Speaking at an airport Affairs, and Mr Brand Foupress conference at the end rie. Director General of the

Speaking at an airport press conference at the end of a one-day visit during which he had talks with Mr Robert Mugabe, the Zim-babwe Prime Minister, Mr Nujoma dismissed the history which has left the strategic

which has left the strategic Atlantic port a South African enclave. "We are fighting to liberate each and every inch of Namibia including Walvis Bay", he said.

He said Swapo had still not formulated its response to the latest initiative by the western "contact group" adding, "We are consulting the frontline states, Nigeria and the president of the Organization of African Unity".

at bolstering support among frontline states for Swapo's negotiating position and Mr Nujoma left declaring that he was "very happy with fruitful discussions".

Talks aimed at reaching an agreement on the first phase

Fraser, the prime minister announced in Canberra yes-terday. The British-born indge, who is 58, will succeed Sir Zelman Cowen, who has

been Governor-General since 1977.

The announcement ended widespread speculation that the Prince of Wales would take up the post. Both the Prince and Mr Fraser initially favoured this, the Prince likes Australia and a smell as the Oneen's range.

strong objections by the Australian Labour Party and fears that Prince of Wales

rie, Director-General of the South African Department of Foreign Affairs, are continu-ing their discussions tomorrow. Each called separately on Lord Carrington, the

Foreign Secretary, today. The five nations in the Western "contact group" — the United States, Canada, Britain, France and West Germany, last month pre-sented their revised pro-posals for phase one, which deals with constitutional

Before the latest talks opened both Pretoria and Swapo appeared to have objections to the Western recommendations for elecobjections to the Western recommendations for elections to a constituent assembly. The key proposal is that half the seats should be filled by proportional representation, and half by candidates elected directly from single-member constituencies (on the British model).

Export markets for Canadian goods.

The new External Affairs Department will have three ministers instead of one. Mr Mark MacGuigan, the present Secretary of State for external Affairs, will be supported by a minister for external trade, and a minister for external relations.

Canberra job for judge not the Prince

☐ Sir Zehman Cowen, is to be the new Provost of Oriel College, Oxford. He is ex-pected in Oxford in Septemb-

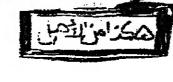
Sir Zelman a-barrister and

QC, taught law at the college from 1947 to 1950. The retiring Govenor-General has been Chancellor of Brisbane

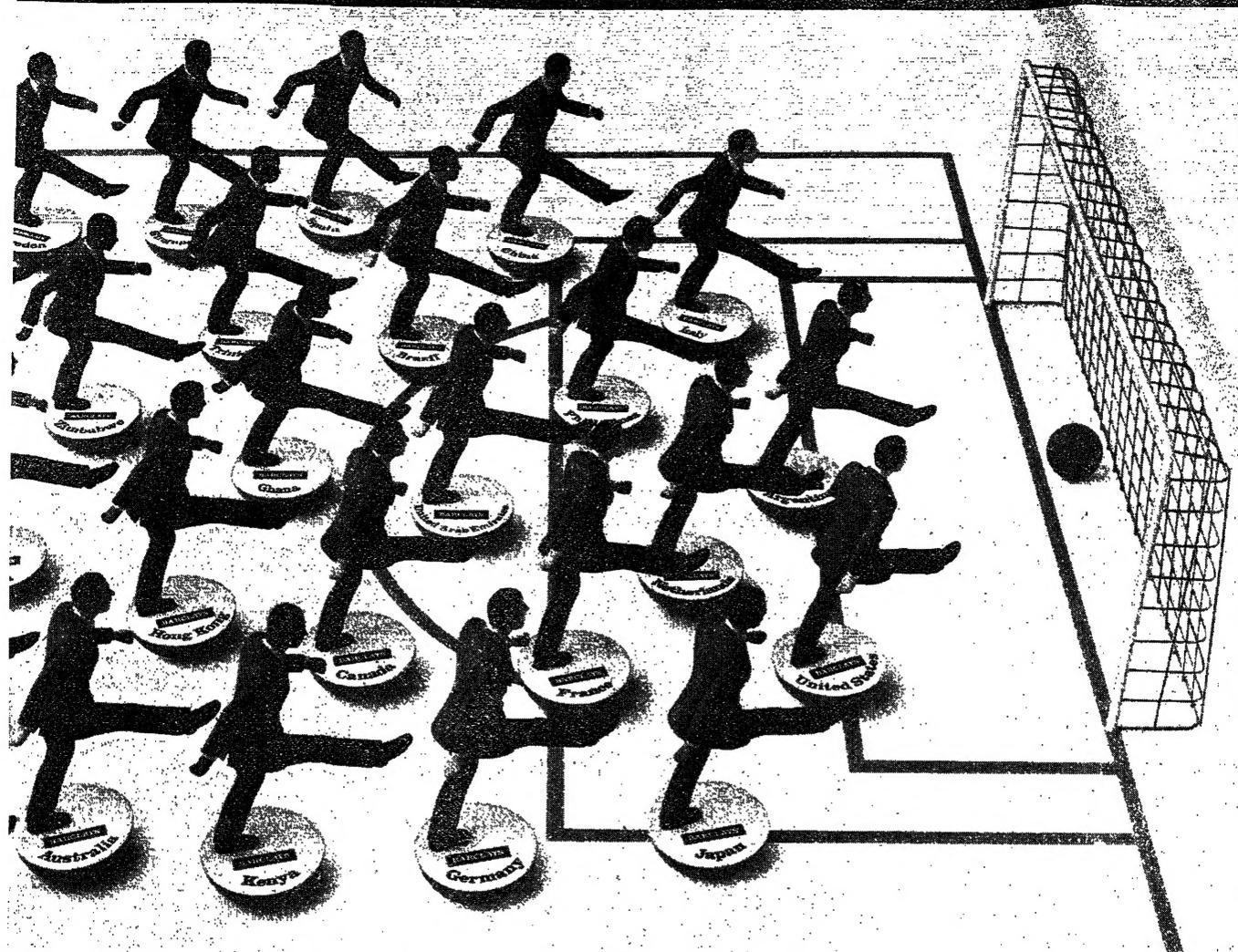
did not find someone within the 90 days as required by

University.





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PEOPLE WHERE IT COUNTS.



A master impersonator's epitome of the 1980s:

Freed Briton describes ill treatment in jail

Mr Steven Kitson, the Briton arrested while on a visit to South Africa to see his jailed father, said yesterday on his return to London that he had "broken down and cried" under what he called brutal interrogation and mental torture by South African security police.

He said he was kept in solitary confinement for five days, and for the first 24 hours was interrogated con-tinuously, while forced to stand upright without sup-port. He was slapped about the face until his nose bled, shaken so violently that his head banged against the wall and had buckets of cold water thrown over him to keep him awake.

"On about the fourth day I broke and cried in front of them," he said. "They were asking me most personal details about people mentioned in my notebook, and for anything I knew about my mother's activities with the African National Contract Transford the venes gress. I mentioned the names of two people who I thought might be involved."

Mr Kitson said that "with and kitson sau that with hindsight it seemed rather stupid to have taken photo-graphs of the outside of the prison where his father had

"During a medical examination just after I was arrested I was absolutely terrified, knowing how both my father and mother had been tor-tured during their interro-gations. I was subjected to physical maltreatment an mental torture, but it was clear that the interrogators did not want to leave me with

UN doubles

From Charles Harrison Nairobi, Jan 13

Karamoja

food relief



Mr Steven Kitson: Wept under interrogation.

solitary I saw a man who had stupid" to have taken photobeen detained being taken to been detained being taken to and had made visits to his prison where his father had been detained being taken to and had made visits to his prison where his father had been detained being taken to and had made visits to his prison where his father had been detained being taken to and had made visits to his present the past 17 beaten until he was screamfather looked physically well in the most horrify and was mentally alert when the father before the arrest. "My beaten until he was screamfather looked physically well and was mentally alert when the father before the arrest. "My beaten until he was screamfather looked physically well and was mentally alert when the father before the arrest. "My beaten until he was screamfather looked physically well and was mentally alert when the father before the arrest. "My beaten until he was screamfather looked physically well and was mentally alert when the father before the arrest. "My beaten until he was screamfather looked physically well and was mentally alert when the father before the arrest. "My beaten until he was screamfather looked physically well and was mentally alert when the father before the arrest." The father before the arrest are looked physically well and was mentally alert when the father before the arrest are looked physically well and was mentally alert when the father before the arrest are looked physically well and was mentally alert when the father before the arrest are looked physically well and the father before the arrest are looked physically well are looked physical ing sound I have ever heard.

"It was purely for a personal, private record. I seven or eight people were wanted to show my children what it was like to visit my father in jail. I did not think I was breaking the law at all".

He believed that a campaign organized in Britain on his behalf, and the interest of the press had saved him from worse treatment.

I was purely for a "On another occasion, sketches had been intended as part of a plot to help jailed members of the African National Congress to escape. Mr Kitson denied that anyone else had been involved. "One thing that heartens and then kick his legs away from underneath him so that he landed very heavily on the concrete floor."

It had been his ambition to visit his father every year sent to Robbin Island, had until his release, which is due witten messages on the in 1984, and to help him after he was released. "That ambition will now never be realized. I do not think I can ever return to South Africa and I do not think my sister ought to go either."

My worry now is that this may all be a dream and that I may awake on my bunk looking at the two bricks beyond my feet to see the

In 1961, just after Eisenhower and with Kennedy just settling in, Harold C. (Rabbit) Angstrom made his first appearance, as an articulate local basketball ace subsiding under protest into domesticies and ordinary mork in ticity and ordinary work, in Rabbit Run. Ten years later in Rabbit Redux, soon after the invasion of Cambodia, the the invasion of Cambodia, the shootings at Kent State and the moon landing, Rabbit, despite his doggy loyalty to superannuated ideas, gets swept into the rubbish-chute of the times, with a radical black on the run and a spaced-out girl. Now, just over a decade later still, a kind of Hegelian synthesis has been achieved. Rabbit is head salesman at the Toyota head salesman at the Toyota dealers founded by his late father-in-law. His marriage has settled down after all its convulsions of infidelity, drink and death. He is happy

He had been in South

The South African auth-orities had alleged that Mr

the Terrorism Act and who It had been his ambition to may have been hanged or

may awake on my bunk looking at the two bricks may second night in years ago.

may awake on my bunk looking at the two bricks beyond my feet to see the words 'Don't worre'

Torture and murder reported in Venda

From Michael Hornsby, Johannesburg, Jan 13

are doubling their food distribution in Karamoja, north-east Uganda, to avert a return of the famine which in 1980 killed thousands of tribal "homelands" with land area of the country. many of them United Nations Children's Fund regional dent Patrick Mphephu of the na, office in Nairobi said today cally important Bantustan (as

that it would distribute 1,600 tons of food, mainly grain, this month because local called of Venda. stocks from last year's harvest are exhausted in some parts of Karamoja. In 1980, a large-scale relief operation for Karamoja was

operation for Karamoja was launched to combat the famine caused by several years of drought and the depletion of livestock herds by a combination of drought and inter-tribal raiding. Medical teams and food distributon schemes were organized with aid from many countries, including

Last year, the aid agency was able to reduce food distributions after the harvest had created reasonable food stocks. But Unicef said recently that the stocks were running low in some areas, so that emergency relief should be resumed. The United Nations World

Food Programme is supporting food-for-work schemes, and Unicef and several voluntary agencies are distributing food twice a week to undernourished children at 18 centres in Karamoja. Unicef says that about 5 per cent of the children examined are below acceptable nutritional levels and every effort is being made to prevent a return to the conditions of 1980, when children were dying in large numbers in Karamoja.

The most serious food shortage is reported from Boldoth county, northern Karamoja, where 19,000 families are receiving foed. Relief food programmes will have to continue for at least another six months, until the

South African homeland' repression

reports here of the detention. Venda went "independent" torture and even murder of in 1979, after the examples of political opponents of President Patrick Mphephu of the na, and like them is spurned the "homelands" are also

least 15 people have been and to the east, separated detained, and one of them, from Venda by the Kruger Mr Tshifhiwa Muofhe, died National Park, lies Mozambiin prison last November only two days after his arrest. He had not been in ill-health, and, according to informed sources, the district surgeon

Another missing Venda citizen and member of the local Lutheran church, Mr D. Ralushai, is also said to have died recently at the hands of security police, though this report has been denied by Brigadier T. R. Malaudzi, head of Venda's small army-

Lutheran pastors in Venda — Dean T. S. Farisani, the Rev. N. Phaswane, the Rev A. M. Mahamba and the Rev P. M. Phosiwa — are among those being held. And Pastor Faure Louw, a missionary of South Africa's Dutch Reformed

grounds.

The Bantustans are an integral part of the apartheid strategy of eventually turning all South Africa's 20 million blacks (about 75 per cent of the total population)

posmive account of developments in the "homelands".

This suggests that Pretoria, though hardly in a position to lecture anyone on respect for human rights, may be growing disenchanted with its protege.

who conducted the post mortem examination found evidence of torture.

cum-police force.

Four of the nine full-time

Church, was recently deported after eight years in the territory.

Pastor Louw's offence, it is believed was his friendship with the late Mr Muofhe, whose funeral he helped to the dead man's widow. Mr liberal Englishman must be dead man's widow. Mr liberal Englishman must be dead man's widow. Mr liberal Englishman proliberal Englishman proliberal Englishman progovernment Afrikaans newswhich usually learn friends not to have been politically active but, as a Christian, to have questioned apartheid on biblical apartheid on

na, and like them is spurned the outside world. It

ralled) of Venda.

To the north, across the In the past two months, at Limpopo river, lies Zimbabwe Almost entirely dependent

on Pretoria financially, Venda is politically one of the least legitimate of all the "homelands". President Mphephu, who is semi-literate, and his ruling party have twice been defeated in general elections, but retain power thanks to the support of the South African police and 42 nominated tribal

Mr Baldwin Mudau, a Soweto-based (social scientist) and leader of the main opposition party, which opposed the territory's "independence", died on New Year's Day and rumours are already circulating that his death was not due to natura

Mr Mudau and those of his followers not in prison boycotted the opening session of the assembly after "independence". Nepotism is rampant — almost all Venda's Cabinet members belong to the Ramabilane clan,
Interestingly, the most
critical reports about Venda papers, which usually lean over backwards to give a positive account of develop-

Ghandhi drops Maharashtra chief From Kuldip Nayar, Delhi, Jan 13

Mrs Indira Gandhi, India's Prime Minister, is looking for a successor to Mr A. R. Antulay, the Chief Minister of Maharashtra, who has been indicted by the state high court for misuse of present and malaractices.

power and malpractices.

Mrs Gandhi has been shielding Mr Antulay for some months during which the press and the opposition were repeatedly alleging that he had constituted a trust in the name of the Prime Minister to collect money from private parties by selling them over-priced cement. Cement is distri-

Mr Justice Lentin has ported her when she was ruled that the connexion defeated at the polls in 1977. between the allotment of cement quotas and donations.

Matters may not rest here and the opposition will try to any the opposition will try the opposition will try to any the opposition will try to any the opposition will try to any the opposition will be opposition.

himself that no allocations quiry. were made by Mr Antulay.

from private parties by the opposition members. Obvious that it was now three opposition members. Obvious that the Prime Minisselling them over-priced cement. Cement is distributed by the Government directly because of short our verdict but she did not towards the whole question of converties. agree because he had sup- of corruption.

The ruling came in the India (Marxist) has said in a wake of a petition filed by three opposition members.

The Communist Party of India (Marxist) has said in a statement that it was now obvious that the Prime Minis-

cement quotas and donations to the trust was established. He said that the charge of arbitrariness on the part of the Chief Minister was justified.

The judge has rejected the versions of the state government and the Chief Minister may not rest here and the opposition will try to make capital out of the court judgment. There are corruption charges pending against the chief ministers of Bihar, Orissa, Madhya Pradesh and Haryana and Mrs Gandhi has not been allowing any indirection.

the Temple. Many problems are left unresolved. What was the enormous and enduring spiritual attraction of the elite Templar ethic? How far was the Order really corrupted from within, or simply de-

banking network

scholarly Drawing in Early Renaissance Italy (Yale, £15)

or the United States over the last 20 years or more, the period of Rabbit's and his creator's conscious life. The action of these novels pops up from time to time above the surface of a marvellous, memory-awakening flood of public detail: candy hars detail: candy bars, automobile models, dance steps, clothing styles, favoured foods, attitudes to public events, modes of amorous behaviour, catch phrases, even the last faint Time-borne reverberations of happenings in the life of the

Very near the end of Rabbit is Rich Rabbit is thinking about the new house he and Janice have just bought (having built up the

The Rabbit novels are John Updike's best since they give the fullest scope to his

remarkable gifts as observer and describer. What they amount to is a social and, so to speak, emotional history of the United States over the last 20 years of more, the period of Rabbies and his control one, in the best sense, and his control one is the period of Rabbies and his control one is the period of Rabbies and his control one is the period of Rabbies and his control one is the period of Rabbies and his control one is the period of Rabbies and his control one is the period of the

wordy one, in the best sense, as when one says of a chocolate pudding that it is rich. Rabbit's thoughts and utterances frame themselves at a high rhetorical level: most of all, perhaps, when he rehearses to himself and others the lavish professional minutiae of the work of an others the lavish professional minutize of the work of an accredited Toyota dealer—the precise fine print of trade-ins, part-replacement, loan financing, shifting last year's models. Even at his briefest and most aphoristic Palbit resonates, for Rabbit resonates, for example: "the great thing about the dead, they make

We are lowered as in a diving bell into the thickly populated swirl of Rabbit's inner life, as he peeks down bought (having built up the diving bell into the littery deposit by way of a nice little operation with Krugerrands and silver). There is a den. "He thinks in this room he wives' dresses, examines and might begin to read books, comments on a medicine instead of just magazines and cabinet in somebody else's newspapers, and begin to learn about history, say." Chats with his second-incommand who once had a histories already Everything new foreign affair with historian already. Everything now forgiven affair with he sees as he drives on test- Janice. It is a remarkable trips round the decaying city piece of impersonation kept of Brewer brings up a up without noticeable flag-fountain of recollection, not ging for nearly 500 pages.

this Rabbit will run and run he were one of those grey quite tasteful wife-swapping shiny pads on which a keeping one up all night, as shopping list can be written the phrase is, during an and then with a quick exhausting week's holiday in movement erased. More substantial novelists are impersonators rather of the Eric Morecambe order, absurdly discernible as themselves behind the threadbare Cagney formula. It is this that makes him a less than satisfactory book reviewer. He turns his hand to anything in the New Yorker, but he here we his wrist is too

only because his wrist is too

loose. It is enough for him

that literature, or the world, is there; he is not in business

to do anything about it.

In his third incarnation Rabbit is treated in a kindly way. In almost any other novel that Krugerrand deal would have come more or less disastrously unstuck. But, as he and Janice stagger under the weight of the coins under the weight of the coins on the way to the bank vault they are not mugged. When he sells, Rabbit, like the Rothschilds, sells a little too soon. Janice still drinks a bit but it keeps her very amiable and she has retained her appearance. That is just as well since in Rabbit's circle the iron gates of life take a

the iron gates of life take a

John Updike shares with pretty sovere battering;' rare-Mike Yarwood a certain by a night is missed at home elusiveness of identity, as if and there is energy for some

Two sorts of pressure bear down on Rabbit's comfortable life as chief salesman at Sprinja motors and a membe of the Flying Eagle Country Club. The first and more identifiable is exerted by his awful whining son, Nelson, a drop-out from Kent State (no longer in the swing of things), complaining his way into the Toyota business and smashing up cars, sometimes out of sheer pique, every 80 pages or so. More general and in the background is the steady dehumanization of Rabbit's familiar world which at least corresponds to the only vestigially human quality of poor Nelson. The ity of poor Nelson. The demands of the car, the computer, the franchise system have all worked disintegrate the individuality and human scale of the southern Pennsylvania in which Rabbit grew up and has now found a sort of peace.

Anthony Quinton

Cadre of fighting monks

The Knights Templar By Stephen Howarth (Collins, £9.95)

and he knows it. The only grit in the soup is his lamentable son.

Rabbit is Rich

By John Updike

(André Deutsch, £7.95)

The crusades produced three brotherhoods of fighting men: the Hospitallers, the Teutonic Knights (to whom Chaucer's "verray, parfit gentil knyght" may have belonged), and the Knights of the Temple of Solomon in Jerusalem. But of these it has always been the Templars who have caught the popular imagination, not only for their legendary valour in battle (and the famous white surcoat with the red cross on the shoulder), but also be-cause of the mysterious circumstances of their sud-den, vicious suppression at the beginning of the four-

teenth century.
As an order of fighting As an order of lighting monks, sworn to vows of poverty, chastity and obedience, the Templars flourished for nearly 200 years. Their original Rule was laid down by St Bernard of Clairvaux, to be a model of chivalry and fraternal service in the Holy Land. But by the in the Holy Land. But by the end they had become a vast secret society, a state within states; with property hold-ings stretching across Europe from Ireland to Hungary, and with an interwhich provided credit (plus interest) to princes and kings all over Christendom. Their suppression in France was achieved in a single night of mass arrests in 1307, followed by a series of spectacu-lar show-trials and confessions, which found the Order guilty of heresy, blasphemy, sodomy, and idolatry — a revelation of the nightmares of the medieval mind. A brilliant chapter on the psychology of their persecution appears in Norman Cohn's Europe's Inner

man Cohn's Europe's Inner Demons (1975).

Stephen Howarth does not go too deeply into these dark waters. He has previously written a book on the Kohi-Noor Diamond, and he prefers his history to be bright and picturesque. He has obviously followed many of the Templar campaigns over their "exotic" ground, and

his set-pieces, such as the battle of Hattin (possible site of the Sermon on the Mount) in 1187, and the final tragic defence of the port of Acre in 1291, are colourfully managed. He favours the grand, epic figures of St Bernard, Pope Urban, Saladim, Richard Coeur-de-Lion, or the sinister Philip the Fair of France, to the puzzling, forces of growing European nationalism? Most of all, how have the Templars continued to be associated with so many half-mythic, half-historical phenomena: the Assassins, Prester John, the Angels of Mons, the True Cross, the Turin Shroud? Their story is more than an ancient history of France, to the puzzling, often anonymous brothers of of battles and persecutions, and their influence runs deeply through the more shadowy, gothic zones of English literature, from the ghost stories of M. R. James

to the Langue d'Oc novels of Lawrence Durrell. Richard Holmes



Orgone recital

Record of a Friendship The Correspondence between Wilhelm Reich and A. S. Neill, 1936-1957 Edited by Beverley R.

Placzek (Gollanc, £12.50) A. S. Neill, the Scottish

educationist and founder of Summerhill School, and Wilhelm Reich, the Austrian ex-psychoanalyst, ex-communist, and inventor or dis-coverer of vegetotherapy and the "science" of orgonomy, first met in 1936 in Osio, where Reich was a member where Reich was a member of the audience at a lecture Neill was giving. When Neill heard this, he said "Good God, I was reading his Mass Psychology of Fascism on the ship" and telephoned him at once. They dined together, talked far into the night, and became fast friends immediately. became fast friends immediately. "We sat talking till late

and I was fascinated. Reich, I said, you are the man I have been searching for years, the man to link up the soma and the psyche. Can I come and study under you?" Reich's immediate reaction to Neill is not on record, but Neill did study under Reich intermittently for the next two years, until Reich migrated from Norway to the United States, and they remained close friends until Reich's death in 1957. The

habit of keeping not only all letters he received but also carbon copies of all letters he Friendship. But, it must be said, it was

letters to Reich really are personal letters, full of details about his private life, about running his school in wartime and post-war England, about the lives of mutual friends, while Reich's to Neill are all too often sermons, self-justifying and self-congratulatory. "Why self-congratulatory. "Why should I go around bragging

that at my 40th birthday I was hailed at a dinner as another Karl Marx, Sigmund Freud, Darwin, and Galileo taken together? I don't find much joy in such compari-sons, since I am only Wil-helm Reich and that is sufficient for me".

It was Neill too who took evasive action to ensure that their friendship was never threatened by scepticism as to the value of the various "scientific" experiments by which Reich persuaded him-self that he could see and measure orgone energy (alias libido, love and cosmic energy), that he could predict and alter the weather, that he possessed "the secret of cancer, rheumatism, tuberculesis represis psychosis and losis, neurosis, psychosis and many other diseases which devastate social life and even bring about wars." Although the editing of the

correspondence seems to be

competent, and the Introduction sets out the careers of both Reich and Neill accurately, British readers are warned that the book as a whole is designed for the American market and assumes prior knowledge of and sympathy with—Reichian ideas. I doubt whether anyone will make much sense of the last 100 or so pages, if he does not already know about the last, American phase of Reich's thinking and has not read elsewhere about how he fell foul of the American law present volume, which spans and died in the psychiatric the whole period from 1936 to 1957, is based on letters taken from Reich's file.

Apparently Reich was in the helit of leasting the state of the stat Introduction is tendentious. wrote, so the correspondence ography: "A great man had wrote, so the correspondence died in vile captivity. I think is reasonably complete. It is died in vile captivity. I think indeed the Record of a Reich will not come into his indeed the Record of a own as a genius until at least three generations from now. Neill not Reich who had a him and learn from him and gift for friendship. Neill's love him." Neill did indeed end chapter 4 of his "Neill, Neill, Orange Peel" (New York 1972; London 1973) with these words, but he also said things about Reich's humourlessness, irrationality and paranoia that do not accord so well with the Reich legend.

Charles Rycroft

Fiction

Weights and Measures By Joseph Roth (Peter Owen, £7.50)

The Ruling Passion By Stephen Barlay (Hamish Hamilton, £7.95)

(Hamish Hamilton, 27.95)
I can keep my 1982 resolis a sweet-natured and simple freak whose gigantic penis with enthusiasm when rewiewing four male novelists who are as initiative as their publishers promise.

Weights and Measures, the outstanding Weights and Measures, written in 1937, is the thirdof Joseph Roth's remarkable novels to be translated into novels to be translated into joyless life is revealed in English. A subtle blend of flashback, the choice befantasy and fable, it is comes less simple. His only witten with the melancholy allies in his adventures are wit and grace of Gogol. Eibenschutz, a simple ex-ar-tillery man, is appointed as Inspector of Weights and Measures in a corrupt and shadowy area of Austro-

Measures in a corrupt and shadowy area of Austro-Hungary, close to the Russian border. Cuckolded by his wife, Eibenschutz is tormented by desire for a ravishing—and unravishable—gypsy girl. She is, however, prepared to share the bed of his enemy, Jadlowker, an unprincipled profiteer whose tavern is the centre of all local smuggling activities. Lust and despair drags the unhappy Inspector down to an abased and predictable end. A short sad tale, it is rescued from gloom by passages of electrifying beauty, and by Roth's shrewdly ironic view of human nature.

Mustro-Hungary is also the setting for The Ruivag Par. Austro-Hungary is also the Raimundo Dusa is a man who has chosen, in his own Raimundo Dusa is a man

are equally deathly, so:

seems the outstanding choice. As Dani's short and

appalling inferiority complex about her looks.

words, "to remain on the sidelines, the detached ob-server, resistant to any an impressive and unlooked-for novel from Stephen Barlay, who has until now written business-like thrillers. A thinly-veiled parable of persecution in an commitment". But when his brother, a key political figure, is captured by miliauthoritarian society, his new novel successfully treads tant extremists, Raimundo's passivity becomes a deliberate withholding of knowledge and he is forced to re-examthe dangerous path between the ludicrous and the sub-lime. To tell the plot is to murder a well-written book, but reviews without resumes Massie skilfully juggles the

point-of-view between the Svevoesque Raimundo, for-Dani, a young circus wres-tler, is to be sentenced to death for the rape and murder of a young girl. Dani is a sweet-natured and simple ever lusting for his nubile niece, Bella, forever postponing his monograph on the Emperor Augustus; Tommaso, the aristocrat-turned-terso, the aristocrac-turned-ter-rorist who dreams of becom-ing Caesar and finds himself a Cataline; and Christopher, a cynical journalist looking for a scoop, capable only of understanding "action for the sake of action". There are no heroes, only comba-tants in a deserted arena. The recognition towards which Massie inexorably drives them is best summed up by Raimundo: those who share his sense of hopeless exclusion from normality: a dwarf, a Turkish lady-wrestler, and Eva, who is burdened only with an appelling inferiority complex.

"We are all of us of course gladiators, and all our triumphs merely postpone the moment when we salute Caesar as we realize that we are about to die.

Finally, to Ethiopia in the 1860s. When the Emperor Dies (Hamish Hamilton, £7.95) is a splendid first novel thank God! — met a man who "swung his filmy eyes" at

Crime

The Green Frontier By John Buxton Hilton (Collins, £6.50)

Wycliffe's Wildgoose Chase By W. J. Burley (Gollancz, £5.95)

With every year that passes crime novels veer more and more towards being just novels. It is a trend both exhilarating and dangerous. Exhilarating because it means that such books are often saving things of more often saying things of more and more interest, things that seem to apply ever more to the dilemmas we live through. Dangerous because through. Dangerous because if the pure-novel element becomes too preponderant the plain excitement that crime fiction engenders, an excitement that makes readers want to read, may be lost.

Two examples of fuglemen perhaps, for 1982. First, Buxton Hilton with his regular sleuth, Superintend-ent Kenworthy (now retired), ent Kenworthy (now retired), by Mason McCann Smith who, if not quite in the class of J. G. Farrell, manages to combine a gripping reconstruction of the British invasion of Ethiopia with an intelligent study of the underlying similarities in apparently disparate civilizations. McCann's only serious fault is a tendency to lapse into the sloppy: I never yet—thank God! — met a man who "swung his filmy eyes" at wung his filmy eyes" at an exact story goes somewhat by the board. Then his fearful tendency to mind-jump from point to point sets

in, leaving readers sometimes bewildered, as does his tendency to lapse into prose bristly as a doormat, densely saying much but hard to move through. Yet that strongly realized background of 1945 Germany is worth more than a little effort.

A not dissimilar process happens in Burley's book, a nearer-home investigation by his sleuth of old, Superintendent Wycliffe, in a little Cornish resort. Here there is a direct part of the cornish resort. a division between the simple murder mystery and the more complex mystery of man's personality. Wycliffe digs away at both in much digs away at both in much the Maigret manner. But when Maigret unearthed a past he did so with a clarity of author's vision that has seldom been equalled. His least action became so vivid you were compelled to read. Burley's treasure from the sea of the past comes up, alas, rather weed-obscured.

The Case of the Sliding Pool, by E. V. Cunningham (Gollancz, £6.95). Beverly Hills puzzle, Japanese investigator. This is English tea-cup school translated into California white wine different conventions, same simplicity, same pleasure.

H. R. F. Keating

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Indigenous virtue

With just under seven weeks to run in BBC2's season. of Australian films, David Robinson makes his selection from the "cinema miracle"

If proof were needed that the Australian cinema miracle has persisted, in defiance of Cas-sandras at home and abroad, it is BBC 2's current season of Australian films. Like most miracles, this one was rather less miracle than one was rather less miracle than happy coincidence of will and organization. In the early Seventies a couple of loud farces, The Adventures of Barry McKenzie and Alvin Purple, striking well below belt level, demonstrated that Australian films could find an audience abroad. The establishment of the National Film Commission and subsequently state commissions showed the concern of the Government to build up a native film industry, and provided funds that went slightly further than merely priming the pumps.

In Australia, suddenly, there was Peter Weir with his still underappreciated horror-comic The Cars

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appreciated horror-comic The Cars That Ate Paris and Ken Hannam, who returned from British tele-vision to make the most majestic film of the Australian flowering, Sunday Too Far Away (February

21).
The new Australian cinema started with several advantages. It was not weighed down like the British cinema with extravagant habits that come with too long involvement with American production methods, or with toughly restrictive trade unions. Modesty and flexibility are strong assets of and flexibility are strong assets of Australian cinema. So is the unashamed demonstration of a national idiom, the declaration that Australians are not Americans or British with a funny accent. Through Australian films the world has begun to discover an authentic and identifiable Austra-

lian character, sentiment, humour language, style and strength. Australian acting has a directness of its own, the attractions of which are demonstrated, at one level, by the growing popularity of Oz TV soap operas. This is truly the projection of a nation.

The new cinema has had its

The new cinema has had its difficulties, foremost and most persistent, inevitably money. Within the past year the Government devised an enlightened taxrelief scheme to stimulate investment in Australian pictures; but were forced into a series of contortions and sidesteps when it became clear that the scheme involved the risk of pushing production into a terrible dead end of fast-buck quickies. A revised of fast-buck quickies. A revised scheme paid more attention to the individual merits of projects and the degree of Australian involve-

A continuing cultural dilemma divides those who believe that, to win an international market, Australia had to aim at some mythical concept of the international national film from those who believe that the strength of Australian films is their sturdily indigenous content and quality. History and box office alike support the indigenous view. The films that have achieved commercial success internationally even when they have used some foreign talent, have been as Australian as 'roos. The "international" pictures have generally sunk without trace, proving that the mid-Pacific film is the same unsound vessel as the delusory mid-Atlantic production which has so often undone British film-makers.
The BBC selection illustrates



how sensitively and illuminatingly Australian film-makers have dealt with their own recent past. Philip Noyce's Newsfront (January 24) stands as one of the most original feature films of the decade in dextrous combination of actuality and fiction, its use of an eventful saga of cut-throat competition between two rival newsreel companies to explore political and social traumas of the post-war period. John Power, formerly a documentary director, makes something very different out of the rivalry of two itinerant film exhibitors touring rural Australia in silent film days in The Picture

Show Man (February 2) — an affectionate impressionistic comedy, nostalgic for a lost past.

Among the film's great merits is the central performance by John Meillon, a master at characters of seedy self-importance.

seedy self-importance.

The Twenties are also the setting for The Irishman (already screened), directed by Donald Crombie, whose Caddie, about the trials of a young woman in the depressed Thirties, is one of the major achievements of the new cinema. The Irishman feelingly shows the divisions of a farmer who cannot bring himself to who cannot bring himself to abandon the methods — dominated by horse power — he has followed all his life. Crombie's sensitivity in dealing with ordinary emotions and intimate human situations is also revealed in Kathy's Child (January 26), a contemporary story

Susannah Fowle in "The Getting of Wisdom": Bruce Beresford rising handsomely to a challenge

based on a real case, about the anguish of a Greek immigrant whose husband abducts their child and takes it back to Greece, leaving her to discover the rough and the smooth of an alien society.
It is no particular credit to BBC television that Sunday Too Far Away has waited seven years for this first screening. The title comes from the lament of the wife comes from the lament of the wife of the sheepshearer home for the weekend: "Friday too tired, Saturday too drunk, Sunday too far away." The rivalry, rough humour and hardships of the shearers' seasonal work might not sound too promising a theme; but Ken Hannam brings to it the thrill of epic as well as the less bawdry of Australian humour.

Australian humour.

A later film by Hannam in the season, the psychological mystery melodrama Summerfield, (January 17), shows him vainly grappling with a script that stubbornly remains a contrivance. The energetic and prolific Bruce Beresford is also generally as good as his scripts. He can rise haudsomely to the challenge of Breaker Morant or The Getting of Wisdom (February 9) — Henry Handel Richardson's story of a bright girl rebelling against the social and disciplinary restrictions of an early-century education. Beresford's The Money Movers (February 7) is a fast heist film in the kind of sub-Hollywood manner that does not get the Australian cinema very far. Australian humour. . get the Australian cinema very far. I have yet to see Tim Burstall's The Odd Angry Shot (January 31), about Australian sol-diers in Vietnam. For those who

like manly sentimentality there is yet another showing of an established BBC favourite, Henri Safran's Storm Boy (January 19), which tells of the friendship of a

produced a poetry magazine called Underdog, written mainly by himself under a variety of names, and McGough joined in. which tells of the friendship of a little boy, a penguin and a young aboriginal; and there is Blue Finn (February 16), an attempt to recapture the same romantic quality with an adaptation of a novel by the same writer, Colin Teiler, and starring the same child, Greg Rowe, by this time slightly larger. endorsed the aspiration. The verse owed its sociology to the American Beats and its style, according to McGough and Patten now, to the French surrealists and sym-

bolists. Patten left Liverpool for London before the Penguin was published. Asked why, he goes into a strange, nervous paroxysm and says be will answer later. Patten thus dived into culture in a basement in Holland Park while McGough leapt into show business with The Scaffold and subsequently Grimms. Scaffold was closer Tessa Peake-Jones delight-fully plays the errant Dora; James Warwick her apparently elevated husband; Ian

Grimms. Scaffold was closer to pop than verse and any vestiges of surrealism had long since been diluted to naughtiness of the zany, madcap variety. "I enjoyed being part of the group. I enjoyed extending the possibilities of that. It was a strange mix: one day we were on Top of the Pops and the next day it was Kaleidoscope", says McGough.

But just producing books had also proved a viable living for Patten, and indeed they both represent oddities they both represent oddities in the modern world in that they can make a living out of writing verse. Both, in deferwas

ence to their original inspi-

McGough (left), Patten: nervous tension

Poetry

Diving into culture

With the faintly nervous above all be accessible, also arrogance of a newly-famous give a steady flow of read-Sixties pop star Brian Patten ings. The show which opens

Sixties pop star Brian Patten flutters through a succession of interview responses and poses. Roger McGough seems also nervous but reacts by producing a steady flow of rationalizing and genial but puzzled patter.

"Of course Brian was always The Poet in those days..." The Patten head dips in modest affirmation over his tightly crossed legs. Those days were the early Sixties. Patten, a 15-year-old reporter on the Bootle Times, met McGough, a teacher of (among others) John Conteh, and they discovered a mutual interest in poetry. Patten produced a poetry magazine called Underdog, written mainly by himself under a the liver was not ready. ralled Underdog, written mainly by himself under a variety of names, and McGough joined in.

Liverpool at the time was being sanctified by the new pop music, a fashion that gradually accreted enough claims to seriousness to admit something called poetry. By the end of the Sixties, a Penguin anthology called The Mersey Sound had endorsed the aspiration. The for the two weeks but the molecular bull show — entitled Behind the Lines — was not ready. So effectively this one will be a transitional phase between straight readings and full performance. It will incorporate readings from their own work, some from that of other poets, and a number of sketches.

Neither sees this kind of format as any particular blueprint for the future or as

format as any particular blueprint for the future or as any permanent development. Indeed once Behind the Lines is completed and performed they are more likely to slip back into straightforward readings, the audience for which has remained astonishwhich has remained astonishingly consistent. "We get audiences of two or three hundred, sometimes less — poetry is never going to fill the Albert Hall — but that number keeps the atmosphere of a small hall for the readings." his yed with neid ons:

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lke wislest be be neid ness the sund n

They also take heart from the composition of the audience: "We still get the older

Bryan Appleyard

Interview: Alfred Brendel

Playing with ideas

The bizarre portrait-model of Alfred Brendel which stands on his piano, half-centaur; half grand piano, surveys a studio of leering faces. There are masks from Africa, Indonesia and New Guinea, faces from Peanuts carteen and irons I think when the faces from Peanuts cartoon strips and an extraordinary early surrealist Viennese etching of Beethoven's head, with a couple locked in embrace in the tangle of his embrace in the tangle of his we notice much more the adventurousness of Haydn, because Beethoven was fool- is emough to say something about the entire person being both male and female", Mozart and Beethoven who in what Haydn's or Mozart's came affactured."

Brendel: Liszt-obsessed Brendel: Liszt-obsessed adventurousness of Haydn, original keyboard instruments like the fortepiano?

"I'm much less interested to what Haydn's or Mozart's came affactured." about the entire person being both male and female", laughs Brendel, and scurries off to find the reference in a

tiny old book. Brendel's studio and his with the play of ideas, the absurd, the whimsical and the macabre bouncing in and

and irony. I think what he means by irony is a sort of detached oversight, whereas naivety is the opposite, the total involvement. But today we notice much more the

atas take up a large place in Brendel's life at the moment. He spent his last sabbatical studying what he considers to be an unjustly neglected corner of the repertoire, and intends to continue playing and recording the sonatas over the next few years. In his Festival Hall recital on Sunday he will play the late D major Sonata. "The second movement is quite crazy, one of those anti-minuets, anti-scherzi, where all the accents can be fun. Particularly when I play the C major Sonata, too, I like to sit there like one of those little men in a Charles Addams cartoon, to show them something quite an important new record of

Brendel: Liszt-obsessed

or Beethoven's pianos could do than what their orchestral and chamber music sounds like. Their keyboard music is most often a reduction of ideas for all possible media. Take the A minor Mozart Sonata, for instance, which I shall play after the Haydn Sonata. I have made up my mind now, as I wanted to do when I was 20; I'm playing it as an orchestral piece, not as something which has to be scaled down to a Mozart piano. That would not, in my scherzi, where all the accents opinion, do justice to what are wrong. I want to make the piece wants to say. It is the public listen to Haydn so big in scale, so grandiose and show them that music and orchestral in the first movement, that we must take advantage of the orchestral colours of a modern concert grand."

Last year, Brendel released show them something quite an important new record of extraordinary is going to happen."

He will play the D major with whom he has been obsessed for many years. He grand; but how does he rate performances of Haydn on the late works 25 years ago when nobody else was tack-ling them; in 1978 he received the Lisat Society's Grand Prix du Disque; but only now, he feels, are we beginnow, he feels, are we begin-ning to listen to them properly, not as dazzling technical masterpieces, not merely as forerunners of twentieth-century music, but to feel their true heart.

For Liszt's is another face his music another mask, that still exercises its fascination over Brendel. He has, indeed, compared these late works with the discovery of the primitive in European painters like Gauguin at the turn of the century. The "brevity and monumentality", the "monotony and refinement" that he sees and recreates so

tellingly in the dark colours, the bare unison writing of Unstern, its growing obsessiveness, the almost dizzy claustrophobia of the Csárdas macabre, are just facets of that "bitterness of heart" of the decline of tonality and human personality in late Liszt which intrigues Bren-

writing is a constant and necessarily integral part of his art, shaping and articulat-ing verbally the ideas he is working out through his playing. "I'm interested in thinking as clearly as poss-ible. In music, thinking and feeling are necessarily con-nected: the reptile and the mammal contribute emotion, but the sense of order and necessity is generated by ratio. Reason is a clarifying force, a filter for the emotions. And I'm intrigued to find out how clearly one can

Hilary Finch

Aspiring to saintliness

Television

obviously hopelessly, against her husband's superiority. He, an art historian exam-

Dora Greenfield has erred, diminished herself perma-nently in her husband's eyes by her escapades but not to the extent where he can

ining the ancient man-uscripts of the adjoining abbey, has already added the approbation of the comm-unity to his own highly

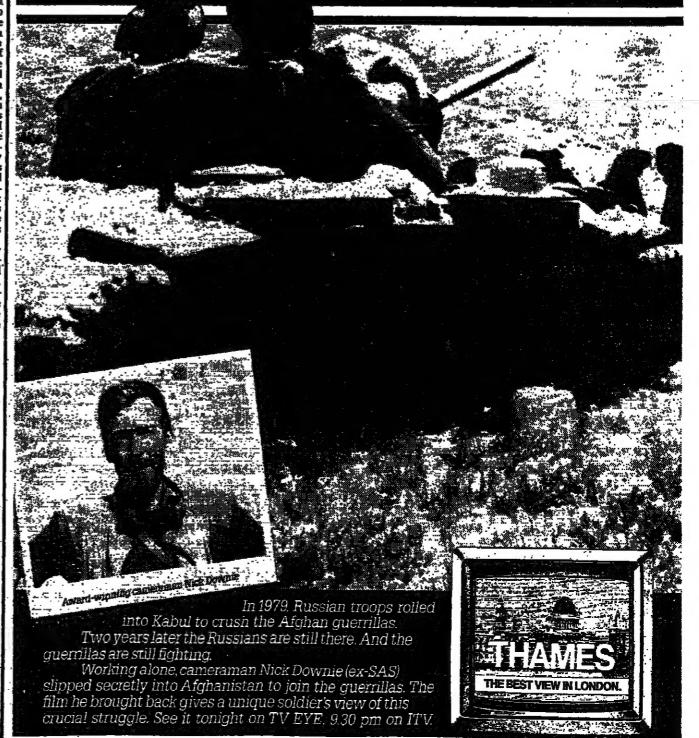
developed self-esteem. Into this clutch of aspirant saints, who have not yet reached an altitude where the clay has been left behind, moves Dora, willing but inescapably worldly, tip-tap-ping on high beels where flat

shoes make no sound. They are described to her as "an Dora, earthy, pulchritudi-nous and compassionate, a simple definition that forgivable sinner, is first makes us aware that we are encountered taking leave of in the presence of characters her boyfriend before joining the community and measurthe community and measurmaking is soon under way. the community and measur-ing herself once more, and It makes for a gripping start.

ently elevated husband; Ian Holm, who takes most easily to uneasy parts, is the failed schoolmaster, trying hard to repent of his homosexual sins but still very much in the presence of temptation; Michael Maloney is the young student with whom Dora finds communication possible. The Bell, produced by Jonathan Powell, directed by Barry Davis and dramaby Barry Davis and drama-tized by Reg Gadney, is well cast, well photographed and pacily directed. It was shot on video in the very short space of nine days, but that does not show and the further episodes should be

Dennis Hackett ration that their work should

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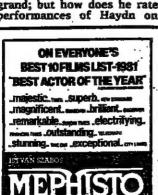
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forbear to take her to bed.
Their reunion takes place in
a lay Anglican community
where the light of righteousness shines but the shadows
hide the conflicts between spiritual aspiration and base temptations. It is Iris Murdoch country, the setting for The Bell, dramatized in four parts on BBC2 with the first in view last night. It promises

Theatre

Man as predator

Follies Berserk

Cockpit

Whatever injuries men have dealt out, the Three Women Mime Company are ready to take revenge. One of the sharply pointed numbers in their Follies Berserk is a monumental indictment of the male as predator, yet the materials are simple, and even abstract. Peta Lily, a pretty white-faced clown, stands waiting somewhere on a street while male voices telling her to cheer up and asking the time become threatening, sexual and omin-ous. A towering, empty raincoat moves behind her as she backs away in fear and the suddemess of the follow-ing assault is a graphic illustration of the woman's state of mind, and of the actual threat posed by man as

In another imaginatively conceived item, called "Busi-nessmen", the male sexual image is ruthlessly skewered. It opens with walking neckties and jackets, a picture which resolves into the competitive figures of the three women, Miss Lily, Claudia Prietzel and Tessa Schneidemann jostling each other for the favours of the secretary, an inflatable sex-doll with a shorthand pad in the place of sexual parts. When they decline into drunkenness at an office party they suggest the gro-tesqueries of Steven Berkoff in Decadence, although their actions are never as defined or as detailed.

· Absolute command of their movements is lacking, but in their sort of mime, which uses words, recordings and painterly images — often with a suggestion of Magnitte - the compensations are in the ideas. Not everything is formally feminist, and oue of their most successful items is a spoof of Agatha Christie stories with three old women plotting each other's murder, while another piece explores the absurdities of carrying handbags. Nonetheless, they articulate a feminine view of the world, particularly in the "Follies" section where a striptease is translated into a mother's unswaddling of an

Ned Chaillet

What the Soviet block

(Net hard-currency debt to the West in billion current US dollars

John Barry argues that the ramshackle economies of eastern Europe should be allowed to collapse

There is something awesome about western Europe's dictions and especially high to the Polish debacle. The like the USSR which is able thus to divert far greater resources to its military sector. foreseen five years ago which was also when American leaders urged is to Organization for Economic Confront the problems raised by Soviet block debts to the Wast Nothing of the West Nothing of th

on a "dash for growth" using western technology bought with western loans. By the end of 1974 the strategy was hitting trouble. The debts were mounting but not the productivity.

By the end of 1975 it was also becoming clear that the spiralling Soviet block debt as a whole, was worrying, with Poland merely the most precarious example. In June 1976 Dr Kissinger, the United States Secretary of State, raised the issue at a ministerial meeting of the Or-

the Euromarket - forbidden born, that is, out of financial

The strategic implications of loans on this scale were realized. A meeting on East-West technological cooperation organized in Brussels in March 1976 by the Nato economics directorate continuous directorate economics directorate con- I can learn.) cluded that: "... perhaps the West should exercise greater restraint in future in such priority became not the Desperate to improve their sidered was direct Soviet concessional areas as credits, orderly repayment of its hard currency trade balance intervention of the most

Then came Kissinger at the West. Nothing significant year Jacques Billy, Nato's chief economist, was musing It was in 1971 that the publicly whether it was Polish government embarked sensible for the West to on a "dash for growth" using divert so much of its avail-

raised the issue at a ministerial meeting of the Organization for Economic Cooperation and Development.

Already, Poland's debt service ratio—the percentage of annual foreign exchange earnings needed to repay principal and interest due on outstanding debts—was somewhere between 20 and 30 per cent, with the other five countries of Soviet Europe not far behind. Italy in 1974 had been shut out of the Euromarket—forbidden to recommend the source of the Euromarket—forbidden to recommend the source of the Euromarket—forbidden to recommend the source of the source of the source of the hard questions where not answered—nor have they been, even in the present crisis. The main liaison body for western policy, according to United States government sources, has been the ad hoc group of major western creditors of Poland which the French called that meeting to coordinate western response to yet another Polish request for cash. The group was born, that is, out of financial further loans — when its rather than political condebt service ratio reached 10 cerns. The upshot is that per cent. Yet now the what has become, for western banks went on example, the main whitehall

That is nonsense. From the birth of Solidarity, the West's



Henry Kissinger, who raised the issue of Soviet block debts in 1976; and Hans Friderichs, chairman of Dresdner Bank, Frankfurt, who has been coordinating talks between western banks and Poland. He visited Poland this week.

debts but the fostering of to meet those debts, Poles brutal sort — action which Solidarity and the use of any levers that the West could those imports were needed to that end. Yet the fuel the western machinery Nato's own analysts, howwestern governments allowed the banks to continue to dictate policy, with results wholly inimical to the interests the governments were trying to secure.

If Solidarity were to stand a chance, the West had to

relax its economic pressures on Poland, because the immediate outcome of Solidarity's victories would clearly be a worsening of Poland's economic plight. The five-day week won in the Gdansk agreement, for example, meant a 15 per cent fall in Polish coal output. Poland had to be given time. Western governments agreed to this. Despite the paralysis of Washington under a new administration, they decided quite swiftly to reschedule Poland's most immediate debts. The banks, by contrast, not only took months to come to a similar agreement but shut Poland from the medium and long-term credit market, forcing Warsaw to seek short-term

loans. Poland is said to be

paying 18 per cent on some.

fuel the western machinery already installed. The phenomenon economists call "cascade effect" whereby a shortage of one part causes ripples through-out industry — took grim hold Poland, with one third of its capital stock unused, ground towards breakdown. Intervention became inevi-

Yet as this predictable (and predicted) cycle unfolded, western governments proved unable or unwilling to exert effective pressure on their banks. And a prime reason was the dominant influence of treasuries and central banks with their arguments that, even in this pass, the freedoms of the commercial banking sector must be observed. The imminent failure of this substitute for a strategy

was foreseen. By the autumn of 1980, Nato had settled responses to military inter-vention in Poland; and by last spring a series of measures had tentative agreement. But aying 18 per cent on some. the only contingency con-Desperate to improve their sidered was direct Soviet

ever, consistently warned that a Soviet invasion was in the first instance less likely than intervention by the Polish military.
Against this contingency, Nato governments concerted

no plans. Why not? Because they realized they could not agree. (It was a characteristic response: most of Nato's military preparations are similarly geared to the most politically comfortable scenarios, rather than the most likely ones). Now the crisis is upon us. There is a good deal of talk about European impotence.

The truth is that western Europe is in a strong position better placed to take action, in fact, than the United States.
It is not hard to discover the reason for American

olic lobby in the US is probably second in strength only to the Jewish. But Washington has few levers against eastern Europe. American banks are not among the biggest creditors of Poland or the eastern bloc; so on that front the United

States could achieve nothing without European support.

United States leverage against the Soviet Union is confined to grain and high technology, particularly to develop the resouces of its eastern wilderness. Western Europe, by contrast, is better placed to take action directly against eastern Europe, a point which the communique issued by the Nato foreign ministers barely addressed—it appeared designed to disguise the strength of the lever. without European support.

To finance the imports it its industry working again, Poland needs massive new hard currency loans. At the start of 1981 one western estimate put Poland's needs in new finance at \$12.15 000m. in new finance at \$12-15,000m during the period over 1981-85. Higher estimates have come out of Warsaw since then. Western banks will not advance one cent of that without guarantees from

their governments. That crucially simplifies matters. This is not a case as the embargoes over Iran and Afghanistan were, or as a blockade of South Africa would be - in which western governments have to step in and halt normal commercial

trading. In this case little or trading in this case much of supply cheap credit to the no trading will take place supply satellites, the West relieved Moscow of a subguarantees. Before govern-ments decide whether to risk billions more of their taxpayers money to bail out Poland, it is reasonable to ask what foreign relieves

ask what foreign policy goals those loans would serve.

After a decade of dizzy borrowing, the six countries borrowing, the six countries of Soviet eastern Europe now owe the West more than \$60,000m (gross debt at the end of 1981, according to Nato sources). Most have little chance of repaying their share without transforming their economies, and that has little chance of coming about without radical coming about without radical political change.

Some of the six may have

some of the six may have indeed already have caught the "Polish disease". In the uproar over Poland a fortnight ago, an omen from elsewhere in eastern Europe passed unnoticed. The Roma-nian authorities ceased for a time to respond to worried time to respond to worried telex messages from western central bankers. There is little doubt, in fact, that Romania cannot meet its debts without a rescheduling along Polish lines. Nor will rescheduling help Romania much unless it effectively reforms its economy. reforms its economy.

After that, take your pick.

East Germany in trouble in, perhaps, two years? Czechos-lovakia about the same time? lovakia about the same time?
Any bets on Hungary?
It may be in the West's interests to bail out first Poland and then its fellow members of the Warsaw Pact. But it is by no means self-evident. There is good evidence that eastern Europe dence that eastern Europe ceased to be an economic asset to the Soviet Union and became instead a burden around the mid-1960s. Throughout the 1970s the West in effect shouldered part of the Soviet burden and thus helped the Soviet Union

First, by its readiness to Second. regimes in eastern Europe were given the hope that with the additional productivity of western machines bough with western credit they could buy off popular discontent without the need for political reform. So, far from spurring change in easers Europe, western credits seem mostly to have been used as a

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Of all the regimes, that in Poland was most vigorous in pursuing this policy of bor. rowing its way out of rouble. One western expension the Polish crisis, Proceedings of the Polish Crisis, Proceedings of the Polish Crisis, Proceedings of the Polish Crisis of th mingham University, of served recently that in all their dealings with Solidarity the Polish authorities, faced with a choice between polisi cal concessions which would have been cheap in resource have been cheap in resource terms or costly economic concessions, chose to make the economic concessions. But that, in essence, is the strategy that Warsaw has followed since 1970. And so to a degree, have all the regimes of the area.

The strategy has failed Poland, the dominant economy of eastern Europe, has fallen apart. Other regimes are not far behind. The question for the West is whether it is in our interests to pour out further billions arrest that process. Or whether, to the contrary, it is not time to refuse further loans and make the reschede. ling of existing debts as difficult as possible, to tell the Soviet Union that if it wishes to preserve its ram. shackle empire it, and not the western taxpayer, must now pay the full cost — or allow real change.

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Germany's bravest peacemaker

the slogan "make peace meant without weapons" — it period sweeping through the young ran ministry.
generation from Hamburg to By the time Munich, from Aachen to Berlin. And it has not stopped on this side of "the top Nazis were his into ploughshares has gripped the public imagination in both German states. In the West a higher are In the West a higher pro- promised to "clean up" the portion of 18-year-olds than nation. But as soon as the portion of 18-year-olds than nation. But as soon as the anywhere else are opting for a social service alternative to military training. Young East Germans by the thousand are through the Church — petitioning their government to give them the same kind of option.

What makes this doubly occasion confronted him personally. Göring on that

What makes this doubly occasion confronted him unexpected is that the leader-ship comes almost entirely from the German Protestant Church. There is really no doubled his efforts to defeat German tradition of pacifist idealism, secular or religious. German Lutheranism has always discouraged dissent from the legitimate demands of the state. Consequently even Hitler's rule was accepted with varying degrees of enthusiasm by most Christians. But a brave minority banded together to form the Confessing Church, the Christian resistance. Their undisputed leader was Pastor Martin Niemöller. In the his name was household word around the

Today Martin Niemöller, celebrating his ninetieth birthday, can take some pridein the fact that without him and his friends a mass peace movement largely based on the Sermon on the Mount would hardly be thinkable. Niemöller was born into a

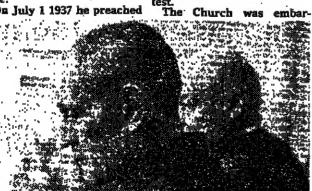
On Martin Niemöller's 90th traditional Prussian parson-birthday, Paul Oestreicher age. For a career he chose back at the career of this near-legendary German church leader.

To almost universal surprise the classer's defeat the province in episcopal straight and the classer's defeat the classer's defea eace meant unemployment, a years as Hitler's personal it period of farm labour and prisoner. He survived them then training for the Luthe-

By the time Hitler came to

the Nazi-infected German Christian Movement. "Yet", he was later to confess, failed to present the true challenge of Christ to Hitler. I could have and should

On July 1 1937 he preached



in solitary confinement with brought warmth, humour and the Bible — and Shakespeare efficiency to the job but little time for democratic niceties,

in English.

Released by the American still very much the U-boat army in 1945, Niemöller captain.

refused to be put on a But the peace movement pedestal. He insisted on has dominated the latter sharing the guilt of the years of his restless ministry. German people: "First they Like many a prophet he was came for the Jews", he said never easy to live and work "I was silent. I was not a with, yet even his political lew. Then they came for the opponents admit to liking Jew. Then they came for the opponents admit to liking Communists. I was silent. I him and to accepting the was not a Communist. Then authenticity of his preaching they came for the trade and the integrity of his faith. unionists. I was silent. I was Only the death of his wife in not a trade unionist. Then a car crash some 20 years ago they came for me. There was took away, for a time, his no one left to speak for me." warm smile. In 1954, with Dresden and Hiroshima still fresh memories, he was converted to Christian pacifism. He tenaciously opposed the rearmament of two opposing German states. He still believes that Stalin's offer shortly before his death to give up East Carrent of the converted to the his death to give up East

should have been put to the

Martin Niemöller: a restless ministry

ruled the province in episco-pal style, though he rejected the title of bishop. He occupied.

Germany for a neutral, younger German-American disarmed, reunited Germany second wife he will enjoy German-American children and grandchildren, friends from around the world and good cigars and wine. His main regret will be that the Church has learnt so little from its disastrous compromises with those in power. His mind will be in places like Poland and El Salvador, his heart with the young peace marchers and he will still be thanking God that Hitler turned down his crazy patriotic offer to exchange his cell for another stint of

World War.

U-boat service in the Second

One of the silliest but least controverted of current pol-itical assertions is that British politics are now riven by two kinds of extremism: that of the Labour left, which has driven good Social Demo-crats out of the party, and that of Mrs Thatcher, who has brought the Conserva-tives to desert the so-called centre ground of politics which all successful Tory governments had previously

in other words, Mrs Thatcher and Labour's dominat-ing left are accused almost even-handedly of ideology, as though, beneath the starkly different intentions of the two parties, the essential attitude and quality of mind were the same in each case. The term "ideological" is assumed to be self-defining and generally used as a term of abuse, particularly nowa-days by Social Democrats offering a rescue from this unholy predicament.

not to the word in its more on maintaining a substantial technical and precise meaning: the science of ideas. We all recognize that civilized people have advanced their moral understanding and their social concepts by the illumination of ideologies. What we rightly see as dangerous is the attachment of all political faith and action to a single ideology—forgetful of the natural limits of human understanding — in the belief that it will somehow open the gate to Utopia. -

It is not altogether unfair to apply the word ideology to socialism since it is a creed embracing almost every aspect of life, which is to be imposed, in theory, by the collective will and in the collective interest. The socialist tends to believe that such virtue as exists in mankind, and such vision of The author is Assistant General Secretary of the British Council of Churches.

Ronald Butt

Don't tag the Tories with the wrong label

In practice, of course, most members of the Labour Party have hitherto not been ideologists in this total sense. Though they see a special virtue in collective responsibility and action, they have recognized that liberty depends on reserving every individual's right to a large measure of personal respons-ibility and freedom of action, acknowledging that both efficiency and liberty depend

variety, is, however, in no sense an ideology in the way that socialism is. Conservatives are influenced by ideas like everyone else; the conviction that mankind is better governed by evolving tra-dition and by political stab-ility than by root-and-branch change is an idea, albeit grounded in empiricism. But Conservatives seldom believe that the existing system is above correction or favour absolute remedies to be imposed in the face of all

other considerations.

How, then, does the application of "ideologist" to Mrs Thatcher stand up to this test, and particularly to comparison with the condition of the Labour Party? What has happened to Labour is first that the dominant left is preparing to implement a much more thoroughgoing state-controlled society than we have ever experienced from industry to such mat-ters of individual concern as policies for industry that education — promising irreversible socialism.

ment would ever impose total by the power of "party-socialism so long as it democracy" and in the name remained genuinely respond of its ideological vision it is remained genuinely responsive to the electorate, the left is bent on rearranging the Labour Party to make its aims possible. It seeks to make a Labour government, a Labour Prime Minister and Labour MPs subservient to Who, then, can rationally Labour MPs subservient to small caucuses of ideologiticians with no responsibility to the wider electorate.

Mrs Thatcher is also an idealist since she is totally committed to the idea that a bealthy economy and a contented and prosperous society require what used to be called a balanced budget, the reduction of state borrowing and the control of the money supply. Keynes, in the conditions of his time, thought somewhat the opposite: that state borrowing could create industrial activity and prosperity, reducing unemployment. That was also an economic

and social idea. There is, however, no reason to accuse Mrs Thatcher of being more ideological in her way than Keynesian politicians were in theirs.

politics - but politicians wishing to preserve stability must carry the people with must carry the people with them and must recognize the limitations of their design. Mrs Thatcher has never shown the slightest sign of pushing her ideology so far as to ignore this provise.

Nor has she any equivalent to the ideology of the left which seeks "irreversible socialism." We have yet to hear her speak of "irreversible capitalism."

Above all, she lacks the which moves the Labour left. It is not simply the left's have driven the democrats out of the Labour Party, but Secondly, lacking confi- the left's anti-parliamen-dence that a Labour govern- tarianism, and its belief than

> Who, then, can rationally apply the word "ideological" to Mrs Thatcher and to the Labour Party, pretending that it means the same sort of thing?

Labour may be rescued: from its dangerous ideology by the treaty of Bishop's Stortford. In that event, if predominant influence is again restored to the likes of Mr Denis Healey and Mr Peter Shore, it is a question of how necessary the Social Democratic Party will be. II, however, as is more likely, Mr Healey and Mr Shore are dragged behind the chariot of the left, then the pragmatists of British politics, the people who recognize the proper limitations as well as the benefits of ideologies, will be the Alliance and Mrs. Thatcher. If we are to have a healthy and free political society, the centre ground There is nothing wrong must lie between the with applying an idea in positions they now occupy. lie between the

The outsider in line for

David Lane's job

My money is firmly on Peter Newsam, the ILEA's education officer, to succeed David Lane as chairman of the Commission for chairman of the Commission for Racial Equality in April. The appointment will not be announced for a few days but I gather on good authority that Newsam. 53, who has been with the ILEA since 1972, came top of the list of the three or four names considered for the job.

Among the qualifications which make him suitable are that he sits on the Swann Committee. he sits on the Swann Committee, which looks into the problems of the ethnic minorities in edu-cation, and he has played a major part in the development of the ILEA's Multi-Ethnic Association. His appointment would of course come as a surprise to those who thought the job would go to someone from within the commission — a view which has gained ground since the highly critical select committee report, which recommended that the which recommended that the commission's powers be reduced. I gather that if an outsider like Mr Newsam were to be chosen, there could be a few resignations within the commission.

Side tracks

Though it is a very inhospitable area now, Tamanrasset — the area in Algeria where Mark Thatcher was last seen — has not always been rough territory. In Saharan terms it is close to the

celebrated cave paintings of Tassili. Tassili n'Ajjer is an enormous, curiously eroded mass of sandstone in the middle of the desert (its name means Plateau of Rivers). It is full of deep gorges and ravaged cliffs and it was here in the early part of the century that a French explorer found the first in a series of extraordinary cave paintings believed to date back to 4,000 BC.

The drawings showed elephants hippos, antelopes and giraffes, quite apart from a number of different kinds of people—hunters as well as farmers. The people, according to the drawings, wore basket-like structures on their heads, hairs shaved into a pattern and sometimes wore horns. They buried their dead, it is thought, in breast-shaped stone mounds which are unopened to this day, The presence of the animal drawings suggests that the area

was far more fertile and accessible at one time than it is now, a supposition supported by the account in Herodotus (roughly 484 BC-424 BC) that horses could still cross the Sahara in his time and by the fact that pollen from ilex, olive, elm and lime have been found in Tassili in association with cattle bones dating back to 3,000 BC. Paintings of horse-drawn chariots have also been found in the area and some believe there was once a chariot route linking what is now Niger

More social gains

Noel Parry, head of the sociology department at North London Polytechnic, and a member of the British Sociological Association's

THE TIMES DIARY



Smith anecdote the other day, I now hear from John Campbell that he has just delivered his biography of Smith to pub-

lishers Jonathan Cape. It has been five years in the making and Campbell believes it is the first properly researched life of the great man. It contains a contro-versial chapter defending his role in the Casement trial plus a number of unpublished Smith stories. Here are two, which both involve Jimmy Thomas, leader of the railwaymen in the 1920s.

executive, provides today's three practical uses of the social sciences. Dr Parry is worried about media bias against the social sciences, so this extract from his letter will help redress the balance.

"(1) The practice of bringing parents (especially mothers) into hospital with their sick children, and to foster children's play in the wards, as an aid to speedier recovery. This was implemented against considerable organiza-

"(2) The relationship between social factors, such as social class and sexual divisions, in relation to the distribution in the population of disease, educational and occupational opportunities, social mobility and other aspects of life chances, including unemploy-"(3) The concept of the self-

Thomas was a proud man, especially fond of his accent and his dropped aitches. One day he complained to F.E. that he had a terrible hangover: "I'm afraid I've an 'ell of an 'eadache." F.E. replied smoothly: "Try a couple of aspirates."

The other start tells have reheat

The other story tells how, when Thomas was elected to the House of Commons in 1910, he was at first bewildered by the corridors of power. He asked F.E. the way to the gents and was told: "Take the first left and then go along the corridor. You'll find a door marked 'Gentlemen' but don't let that morry you."

fulfilling prophecy has been used in research to show the importance of teachers' definitions and those of others on educational performance."
I must confess I was under the impression that the idea of the

impression that the idea of the "self-fulfilling prophecy" had been disproved by later research, but I hope that does not mean I am biased. Three final uses tomorrow when I shall also award the winning bottle, with the aid of Michael Posner, chairman of the Social Science Research Council.

of it looks to me as if they are ordering these things better in France. The Mauroy government has increased the budget for social science research, as for all scientific research by 30, yes, 30, ner cent this year Not had per cent this year. Not bad.

But what is more remarkable is the whole-hearted government



6The boring thing is that my

research is the best way to help France towards a healthier econ-omy and a healthier society. A national conference on research policy was opened yesterday by President François Mitterrand himself. It is the culmination of thousands of hours of meetings, hundreds of kilos of paper; produced during the last four months by researchers throughout the country. our the country.

True fellowship There is one accolade which scientists, unlike the rest of us, cherish more than a mention in

the New Year or Birthday honours lists. Better than a life peerage, much better than a knighthood is election to the Royal Society. For the scientist. FRS after one's name means far more than any number of letters in front of it. So it will be of more than passing interest to our scientific readers to find the Royal Society receiving criticism for perpetuating a certain type of

Dr Herbert Eisener, a former director of the Explosion and Flame Laboratory of the Health and Safety Executive, writing in New Scientist, reveals that Cam-Oxford, London or any other universities in nurturing potential fellows. He says that the tial Fellows. He says that the number of Cambridge graduates elected to Fellowships since 1971 is between three and five times the number to be expected based on the size of the university's science student population. The number of Oxford graduates elected since 1971 is between 1.7 and 2.5 times the number to be expected while the University of London actually falls significantly short of its quota (and other universities are "hardly in the running").

Specifically, after eliminating

the running").

Specifically, after eliminating Fellows whose first university through accident of birth was outside the UK and those whose antecedents are less well documented, Dr Eisener says that of the 286 remaining Fellows elected since 1971, 93 (33 per cent) came from Cambridge, 31 (11 per cent) from Oxford, 59 (21 per cent) from London, and 103 (35 per cent) from other universities.

Dr Eisener's research clearly shows that Oxbridge continues to

cream off the best undergrad uates and the best graduates. But, he asks, why is there such a disparity between Oxford and Cambridge in Royal Society Fellows. Their teaching states were surely equally eminent? He therefore inclines to the view that the Royal Society, like other lesser bodies, propagates and perpetuates its own kind.

Hair-raising

The latest fashion fad favoured by YMT's (young male trendies) is, I am told, to wear a plair in the hair. No longer confined to pirates and eccentric members of the aristocracy, plait-wearing is now popular with artists, designnow popular with artists, design-ers and musicians, although advertising copywriters and even lawyers are known to indulge. Certainly, plaits are more hygienic than the spiked-gine atrocities of punk hairstyles, yet plaits are also intended to shock. The typical wearer will appear perfectly respectable from the

perfectly respectable from the front three-piece suit, tie, polished shoes. Only when he turns his head will the full force of the fad strike you.

Dress designer Rory West is one VAST when he was the

one YMT who has taken up the habit. "I used to have long, green hair," he tells me, "then one night I decided to shave it all off. left this little snake-like green bit hanging down." He is often stopped in he street by people who tell him he has something on his shoulder.

Barbers suffer a strange com-pulsion to cut plaits off on sight, so most wearers look after their own hair.

Peter Watson

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P.O. Box 7, 200 Gray's Inn Road, London WC1X 8EZ. Telephone: 01-837 1234

BANKERS AND THE BANK

One can sympathise with the Cabinet as it grapples with the Monopolies Commission's Hongkong and Shanghai system. Above all it would not report on the future of the Royal Bank of Scotland. At any time ministers prefer the any time ministers prefer the controls. commission to take the odium of deciding delicate take-overs off the government's back. All the more devoutly have they wished the commission to come to a firm conclusion on this occasion, when the Governor of the Bank of England has placed his own prestige in favour of one bid. and against another, when the take-over has aroused such strong feelings within the Scottish community, and when half the nation's departments of state from the Foreign Office to the Treasury have become em-

Government's court. And that, although not a particularly brave decision on the part of the commission is where it should be. The Royal Bank of Scotland take-over merge if they are to thrive in has raised issues of the future a competitive international of banking control, the status scene. It would not meet the of the Bank of England, interests of the Royal Bank's relations with China, and the future of Edinburgh as a have already fallen 50p on financial centre, which are news of the rumoured conferences. far beyond the normal questions of monopoly and free competition raised by a conmetting raised by a con-

for ministers, let alone the Monopolies Commission, to gainsay his advice without damaging the prestige of the whole Bank of England. By proceeding with the bid against the Governor's advice, the Hongkong Bank has inevitably challenged the whole system of discreet control and informal guidance on which the hanking system on which the banking system is regulated.

The compromise response, and the one which the Monopolies Commission seems to have been tempted into, is to avoid offence by using the Scottish factor as grounds to broiled in the dispute.

By all accounts, the commission has stepped back from the final responsibility and put the ball back into the disappointed equally. Yet this disappointed equally. Yet this would solve nothing. It would not ensure the future of an independent Royal Bank of Scotland, whose directors have stated that they must

controls.

The Governor of the Bank of England has attempted to enforce these informal con-trols through discreet guid-ance and he has had his bluff called. Informal controls only work when the participants are prepared to accept them voluntarily and when the regulator has the judgment not to push advice beyond the point where his authority will be challenged.

This is the nettle which the Cabinet must now grasp. Unless it feels that the Royal Bank's employees and share-holders can do better independently, or unless it believes that there are strong financial or moral grounds for refusing the Hongkong Bank's entry - and neither seem sensible beliefs on present evidence then it should accept that the old order is dead and that the market should take its course. Banking could do with the competition of a new entrant and that entrant is best chosen on the basis of the suitor who values the Royal Bank highest. The pieces of banking regulation can then be picked up, and legislation introduced as required.

MR GORMLEY VOICES HIS DOUBTS

may feel that they are making a bet which they can win, but cannot lose. Backing the call for a strike "if necessary" does not commit the union to action, and there may be a few extra pounds to be squeezed out of the National Coal Board by threat alone. But industrial disputes take on a momentum of their own, and and a vote now for a strike would put matters on a footing where modest compromise or retreat would become far more difficult, and a strike might become

one. One experienced eye, at least, sees that the bet is not without risk of loss. Mr Joe Gormley, still president of the union, has written in yester-day's Daily Express to give forceful warning, in funereal black borders, of the dangers to the union, the industry, the labour movement and the country that might follow a coal strike. He believes that the board's financial position roles out a concession of "more than a few quid", and adds that "there is not a union in the country which more than a bargaining has done better since Mrs position. Much more rigid Thatcher moved to Downing imperatives determine the size Street" - an observation of the board's offer. In spite future of their own industry.

As the miners begin to cast which is probably true, their votes in the pithead though almost equally unwelballot today, many of them come to Mrs Thatcher and Mr Scargill.

The miners' claim is for 23 per cent, and the coal board's offer stands at 9.5 per cent, or 10.5 per cent for men with long service. The claim is far in excess of the present rate of inflation (about 12 per cent). It is based on an assessment of what is needed to restore miners to the position they were given by the 1972 Wilberforce award. inevitable even without most of those involved wanting most fruitful hasteners of inflation in the sixties and seventies. In this instance, the claim cannot be sustained either in terms of the industrial pecking order or of purchasing power: miners have risen in the industrial league, even if no price is put on their relatively high security of employment these days. The cost of living since 1972 has risen 274 per cent, while miners' earnings would have risen 385 per cent even if they accepted the offer on the table.

The union's claim is little

of the Government's energetic efforts to encourage in-dustrial markets for coal (another service for which Mrs Thatcher deserves the union's gratitude), coal sales depend critically on being able to remain competitive with other sources of power and (in the increasingly important export market) with foreign coal producers. Many customers would simply be driven out of business by a large price increase.
The offer already leans

quite heavily on speculative factors: it would commit to the pay bill three-quarters of the predicted income from the price rise that took effect in pensive programme to develop new capacity as old faces are worked out will be threatened unless this financial year's 4 per cent improvement in productivity is maintained next year. February's triumph over pit closures did not alter geological realities: the NCB closed ten pits last year, the labour force shrank, and recruitment dropped sharply. Coal mining can only keep up production and employment by a constant process of reinvestment. Even if the miners succeeded in exacting an offer, a better offer than the present one, they could only do so at the expense of the

MR REAGAN'S CHINA TRIANGLE

can government this week not has had to be swallowed, to supply aircraft of an advanced type to Taiwan might have satisfied the Chinese if it had been made six months ago. Mr Holdridge's talks on Sino-American relations in Peking have shown that it is no longer a con-cession large enough to allay China's distrust of President Reagan. Further talks on arms sales to Taiwan and other aspects of the deteriorating relations between China and America are promised. Taiwan will remain the

In Office President Reagan has not modified his attachment to Taiwan. At first he ignored the advice of the Pentagon and the CIA that the advanced aircraft were not necessary for Taiwan's defence. Representations by the Chinese Prime Minister, Mr Zhao Ziyang, and the Foreign Minister, Mr Huang Hua, do not appear to have country, saw themselves made much impression. In foiled in the last act of a civil press attacks the last few weeks the Chinese have made China's unity for the first clear that their concern over Taiwan is quite strong enough for it seriously to damage relations with the United States, denying that American friendship in face of the Russian enemy was so valuable as to allow them to overlook American action over Taiwan.

China's distrust first arose with Mr Reagan's promise that "official" relations with Taiwan would be resumed under his presidency, despite the withdrawal of American recognition of Taiwan's government and the formal relations with Peking deter-marriage every for Taiwan.

About in Carter alluvium of emotion President marriage every for Taiwan.

The decision of the Ameri- Although the word "official" President Reagan has not been diverted from treating relations with Taiwan and those with the Chinese mainland as two separate questions for each of which a unilateral American policy could be decided upon.

It is easy to trace and to explain the entrenched attitudes on both sides. President Reagan's emotions probably go back to the pro-China sentiment that reached a peak during the war. Hopes were dashed by the communist victory in 1949. It coincided with the height of the cold war in Europe: an appalled American chagrin at this "loss" of an American ally was the result. When the chance of the Korean war enabled President Truman to lay down the barrier of the seventh fleet to save Taiwan the Chinese, passionately concerned to unify their war that promised to attain time in this century.

Taiwan became in some 1949. American eyes what it proclaimed itself to be, the true government of China, temporarily displaced by communist and therefore un-Chinese puppets of the Soviet Union; or it was manifestly part of captured the American mind in the fifties; or, even if the

point where he could see no reason to deny any needs that Taiwan pressed upon him, even though an unyieldingly anti-Russian China had be-come a card in the global game. Taiwan and China evidently occupied different corners in his scheme of things.

This wartime and post-war American sentiment — in an older generation — has never weighed up the more deeply rooted emotions of Chinese nationalism. These are not a product of the last forty years, they go back at least to the cession of Taiwan following Japan's defeat of China in 1895, a far more powerful stimulant to Chinese nationalism than the opium wars earlier in the century. Since Mr. Deng's regime in China today is basically one that has turned away from revolutionary aims to return to the national aims of unity and strength that blossomed after 1895, it follows that Taiwan is the missing piece that matters most to China's unity, a piece that was snatched from them by chance and misfortune in

But Taiwan, of course, is a very different problem for China now than it was in 1949; it has become a property not easily subject to takeover. How can such a phenomenon of economic growth be the "free world" in the global absorbed by a mainland division of the world that whose record in the last thirty years has been mostly turbulent and unpredicable? Mr democratic credentials of its Deng is seized of such facts government were found want- and knows that it will take ing, it was an island that loved time before the security and America and could be loved in progress he is trying to bring return. From such an about in China can make a marriage even seem tolerable

Helping industry to plan ahead

From the Director General of the British Institute of Management Sir, Your assessment of the 1982 economic prospects (leading article, January 2) presented a view with which management and industry would broadly concur. You state, however, that Government can do little to ensure that manufacturing companies which are improving productivity can continue to do so in "a more normal economic environment". I do not consider that Govern-ment should be led to believe that it is incapable of offering assistance to industry whose efforts during a time of un-

precedented economic recession have been notable.
You rightly point out that investment cuts have fallen punitively on capital expenditure programmes. Surely then there is a case for a modest relaxation of the PSBR target and for lifting the present restrictions which prevent available private finance from being invested in public sector projects. The removal of these restraints would amount to a slight reflation, which would perform the invaluable service of absorbing the extensive spare capacity in private manufacturing industry but should not be seen as contributing to the chronic inflation which it is essential to

It is of equal importance for Government and in particular the Department of Industry to realise that industrial prosperity must ultimately depend upon the creation of a stable environment in which business can plan for the future.

To this end it is imperative that Government takes a lead in

Government takes a lead in identifying and promoting a clear industrial policy which will ease our transition to a modernised

industrial structure.
If Government implemented these measures it could do so with the assurance that any glimmer of light at the end of the tunnel would not be discounted as a mere hallucination. Yours faithfully, ROY CLOSE,

Director General. British Institute of Management, Management House, Parker Street, WC2. January 5.

Marconi in suspense From Mr Bernard Conlan, MP for

Gateshead, East (Labour) Sir, The inordinate length of time being taken by the Ministry of Defence to make a choice between the competing bids of the Dutch, Hollanse Signaal Apparaten, and Britain's Marconi, to supply the Tracker Radar for the new Lightweight Seawolf missile system for the Royal Navy, is creating severe difficulties for Marconi in Gateshead, Leicester and Chelmsford and is destroying the morale of the 6,000 workforce. As the Prime Minister fre-

quently reminds us, it is the Government's settled policy to purchase defence equipment abroad only when an alternative British product fails by a sub-stantial margin on grounds such as cost, technical and operational characteristics or timescale.

It is understood that the Royal Navy have expressed a preference, albeit marginal, for Marconi on grounds of technical performance, cost, experience of inte-gration in ships, continuing support to the Fleet, etc. This being so, why is the decision being constantly deferred?

Current uncertainty is damaging the export potential of the Marconi equipment for, quite understandably, other navies are waiting for evidence of acceptwaiting for evidence of acceptance by the Royal Navy. Overseas customers will not wait too long. There are, of course, wider implications. In these areas of extremely advanced technology, national governments — including the Dutch — protect their industry by providing maximum support. If Britain is to preserve this technology, and secure its industrial base, our Government must clearly demonstrate its willingness so to do. The decision is long overdue and it is required is long overdue and it is required very soon.

Yours sincerely. BERNARD CONLAN, January 6.

Shakespeare in China

From Mr Paul Gotch Sir, Mr Chen Chun Yeh, in his interesting account ("A hit, a palpable hit in China", January 2) of Shakespeare in China mentions Toby Robertson's help with the production, in Chinese, of Measure for Measure. He did not mention, however, that this collaboration was made possible by the endeavours of the British Council, perhaps because he believes that this would be immediately understood by your readers.

May I, therefore, explain that it was as a result of the successful council visit to China of the Old Vic in 1979 that Toby Robertson, with the designer, Alan Barrett, and lighting specialist, Keith Edmundson, returned in 1981 to direct the Peking People's Art Theatre production of Measure for Measure. This was part of the consolidation of the council's work in China.

The British Council's annual report for 1980-81 also mentions the tour of China by the Music Group of London, who performed with such notable success in Peking and Shanghai, teaching master-classes in the country's premier conservatoires, that invitations have been issued for a return visit by members of this group, also. Yours faithfully, PAUL GOTCH, 15a Copse Hill,

Wimbledon, SW20.

Tax decision on North Sea oil

LETTERS TO THE EDITOR

From Mr Algy Cluff Sir, The Chancellor and the Secretary of State for Energy are shortly to consider their response to the representations on taxation recently submitted by those oil companies engaged in North Sea exploration and development. The form of that response is a matter of the greatest concern to our country and it is important that the issues are appreciated by the public; for, if there is to be no regard paid to the oil companies' case, there will surely be violent recrimination in the

The problem, simply stated, is that political perception of the North Sea, to the extent that it exists at all, is, confined to regarding it as a device to raise revenue rather than to create wealth. This perception has now led to the North Sea acquiring the dubious exputation of being the dubious reputation of being the most heavily taxed oil province in the world barring Norway, which is in no sense comparable, having a population less than a tenth of our own.

The British North Sea fiscal system (apart from being ristually

future and it is accordingly as well to establish the position

system (apart from being virtually incomprehensible so badly has it been constructed) has ceased to acknowledge the profound uncer-tainties and the unparalleled commercial risks which attend the oil companies. The tax rate is currently suspended between the unreasonable and the irrespons-

I believe that the Department of Energy is aware of this and of the disturbed state of the oil companies' morale, but I fear
that the Treasury will maintain
its relentless pursuit of additional
revenue. It is, Sir, deeply
depressing to be part of the
fledgling British oil industry and
to realize how much real wealth,

financial and intellectual, it could IN Dractice generate for Britain if only Government would provide for From the Chairman of the Social the oil companies to profit to a Science Research Council degree consistent with the risks they take. The odds against a commercial

oil discovery being made in the North Sea must now have lengthened to approximately 14 to 1 and the size of such fields is diminishing all the time. The present tax rates (cumulatively amounting to around 90-per cent on profits, including a sup-plementary petroleum duty which is, in practice, a tax on revenue regardless of profit) would be unreasonable if the odds were practically even.

I urge the Government to reflect how much good for this country will result from a positive response to the proposals of the United Kingdom Offshore Operators' Association (UKOOA) Operators' Association (UKOOA) and of the Association of British Independent Exploration Companies (BRINDEX) and to consider carefully the implications of sustaining the severe pressure under which the industry oper-

Being a truly international business the prospect increases daily that the lights of Aberdeen will be, if not actually extinguished, sadly dimmed in the coming years. The story of North Sea exploration is underiably one Sea exploration is undeniably one of conspicuous success. However Ambrose Bierce once defined success as the one unpardonable sin against one's fellows. I am afraid the North Sea oil companies are being unjustly penalized for their achievements.

Yours sincerely, ALGY CLUFF, Clova, Lumsden, Aberdeenshire. Јапиату 3.

Outside Parliament

From Mr Peter Tatchell

Sir, Frank Field (January 9) accepts the legitimacy of extra-parliamentary action prior to the granting of the universal franchise. However, he apparently doubts that it is possible to cite equally impressive and justifiable cases of extra-parliamentarianism since the adult suffrage was won. This is a surprising view from a

parliamentary representative of the Labour movement. The recent history and finest hours of this movement have included struggles not only outside of Parliament, but sometimes even outside the law.

In response to threats of longer hours, wages cuts and lockouts in the mines the 1926 General Strike brought organised labour into direct confrontation against the elected government. To defend impoverished tenants from onerous rates and rents, unjust legislation was defied by Labour councillors at Poplar in 1921 and Clay Cross in 1971. Only a decade ago, free and independent trade unionism was preserved at the cost of workers

refusing to recognise the Indus-trial Relations Act. The AUEW Rockingham Street, SE1. incurred huge fines and five January 10.

dockers were imprisoned for contempt of court. Their release, and the defeat of the Act, was, won through a campaign of non-compliance with the law and the

threat of large-scale strikes.

The miners' strike for a living wage in 1974 even went so far as to bring about the eventual defeat of the Heath government. Far from condemning the strike, the movement applauded and took advantage of it to secure the election of a Labour government.

These extra-parliamentary actions were necessary because rulers ignored the voices of the poor and the powerless. They will probably be necessary again in the future to oppose elected, but the propose of the powerless and the propose elected but the propose of tyrannical, governments and oppressive laws.

Labour has never believed that election by universal franchise gives any government a legisla-tive carte blanche and automatic moral authority for its every action. Odious and draconian laws have always been challenged extra-parliamentary action — and hopefully they always will be. Yours sincerely,

PETER TATCHELL,

Farming research cuts

From the Director of the Henry Doubleday Research Association Sir, Lord Balerno's letter (December 22) tells only half the story of the Agricultural Research Council's surprise attack on our heritage and our future in the fields of agricultural and horticultural research. They are also shutting down the Pomology and the Food and Beverages Divisions at Long Ashron Research Station, and both these and the Scottish-closures will save £3m by 1983-84, a trifling sum compared with the annual loss on flying Concordes.

About 100 first-class scientific men will join the unemployed, breaking up terms trocking on the second stations.

men will join the unemployed, breaking up teams working on new techniques of strawberry breeding, tissue culture, growth regulators, and microbiological safety in foods, all of which are more important in horticulture than microchips. It is folly to spend millions on methods of packing 64,000 "bits" of information on to penny piece-sized mation on to penny piece-sized chips when you sack the men who are finding the knowledge that can only go on a chip if

someone can do the research that Included in this short-sighted slaughter is the work of K. G. Stott, Britain's only willow expert, on harnessing biomass energy that grows on trees, with our national collection of only 200 parieties. 300 varieties, compared with Sweden's 3,000. What is the use of training teenagers for scien-tific careers when the institutions that serve agriculture and horticulture, our most efficient industries, are destroyed by those who do not know enough to realise that when you cut out the growing points of trees you cripple them forever? Lord Balerno's suggestion of axing the Agricultural Research

Council instead and dividing the saving between the research stations is an excellent one. These quangos should be the first to go.

I am, Sir, yours, etc, LAWRENCE D. HILLS, Henry Doubleday Research Association, Covent Lane, Bocking, Braintree, Essex.

London's transport

From Mr Nigel Seymer

Sir. The type of policy body which Sir Peter Masefield (December 22) has proposed for London is in fact the type that has been operating successfully for many years in Hamburg (where it originated) and in Munich. The Germans call it a Verkehrsverbund, which can best be translated as a transport confederation.

It performs exactly the functions which Sir Peter describes, i.e. it plans the development of a truly integrated public transport system: contracts with operators, including the main-line railways, to supply services at an agreed price; receives all revenues from fares and other sources, and acts as paymaster to the various operators (which may include private enterprise firms),

The growth of this type of organization in Hamburg was stimulated by the fact that the main-line railways (DB) had for years operated cross-town sub-urban services (known as S-Bahn) which were inevitably part of the local transport system, and they took the initiative in proposing the development of the -Bahn system.

This is in stark contrast to the total lack of interest of BR in developing cross-town services in London even where existing tracks are available (for a service via Blackfriars and Farringdon), which is no doubt due to "regional thinking" within BR. This is something that a London Verkehrsverbund, suitably staffed, might be able to correct.

But there is a much broader aspect of transport planning in London which a new policy body might be able to tackle, provided it is headed by people whose thinking is untainted by consideration of the vested interests of the operators and their employees and who are prepared unflinchingly to determine what are truly the most economic methods of providing adequate public transport for Londoners.

This is the question of whether massive investment in the BR rail system makes economic sense; and whether at any rate some of the routes at present occupied by BR rails would not be serving a far more valuable social function if they were converted into limitedaccess roads, on which express bus

services could be run.

The GLC ought even now to be giving urgent attention to this question, but is failing to do so; and the Covernment ought to make clear to the GLC that it is prepared in principle to make BR evacuate certain routes. After all the routes belong to the nation, and BR is able to keep functioning only because the Government gives it massive subsidies. Thus the Government is both BR's laudlord and its paymaster, so there can be no question that the Government controls BR. Yours faithfully, NIGEL SEYMER, Bathealton Court,

Taunton, Somerset.

Social science

Sir, May I offer your readers a foretaste of what we shall be telling Lord Rothschild? We seek to support both fundamental and practical work, I myself may tend practical work. I myself may tend to philistine vulgarity — in my own work I actually try to be useful; but not all good empirical work is of that kind; by any means, and I can assure Professor MacRae (January 12) that much of our research is far removed from "plumbing".

Alas, by one of those ironies of public life, those journalists who are even more philistine than

are even more philistine than myself lampoon us for support-ing, say, "useless" social anthro-pology, while the most dis-tinguished members of the prof-essoriat deplore our attempts to be useful.

pe useful.

Despite gunfire from both bespite guillie from both sides, we will continue to encourage both sorts of research, because we are cartain, as Professor MacRae points out, that they are mutually support-

Equally the work we support has in the past and will in the future be chosen for its extellience; we will encourage such work without fear or favour or political interference. Our independence under our royal charter will be used with discretion and such wisdom as we can summon, but it will not be surrendered.

It is most apparent, perhaps, in our support of macro-economics, where all the main strands of research are vigorously present in our portfolio; both those bits which ministers may seem to like and those they dislike. No monoliths are built in Temple

Avenue.

We do have to reject nearly 75
per cent of the applications that
come to us, partly on grounds of timeliness or promise, partly because of shortage of cash. I keep an eye on the margin of rejection.

The last batch of near misses

that I inspected contained some good stuff that we should have liked to have funded — but they were a mixed bag, not left wing nor right wing, not especially "useful" nor especially "funda-mental". Just good research. Yours etc, MICHAEL POSNER,

Social Science Research Council, 1 Temple Avenue, EC4. January 12.

From Professor Robert Moore

Sir, In the article on the proposed Social Science Research Council tuts and reorganization (January 8) David Walker attributes to me views I attributed to others. I have always found the facts

about poverty, educational in-equality and the occupational disadvantage of women to be ouite neutral. Critics of the socia sciences (by no means confined to Conservative back benches) seem to think that the facts are themseives political. As a social scientist I subscribe to no such simple, and simply untenable, Yours sincerely.

ROBERT MOORE, University of Aberdeen, Department of Sociology, Edward Wright Building, Dunbar Street, Old Aberdeen. January 11

The Golan Heights

From the Archdeacon of Oxford Sir, I think Professor Colonel Draper (January 8) has been rash in venturing to criticize the excellent and well-informed letter of Mr Terence Prittie (December

In view of the improper and unfriendly use of the Golan by Syrian forces between 1948 and 1960, it is not surprising that "Israel has introduced... a system of law administration that would function in...a legal

vacuum".

Professor Draper is correct in stating that "Israel law has, in practice, been operative in the Golan for the past 15 years". Syria had no option but to keep out, following the defeat of Syrian forces in 1967.

If Syria and the other Arab countries would follow Egypt's example in the Camp David accord there could be the basis for a full and final peace between Israel and her Arab neighbours in that part of the Middle East which is so much to be desired. Yours faithfully, C. WITTON-DAVIES,

Archdeacon's Lodging, Christ Church, Oxford. January 8.

Capital error From Mr E. J. Nickson

Sir, Your recent correspondents tell us that Ruritania employs Slavonic words for its currency, the party newspaper and its capital city. My recollection of The Prisoner of Zenda and its

sequel is that all Ruritanians, including the proletariat, spoke German as their native tongue (thus enabling our hero to substitute effectively for the We all know that, at the end of

the last War, the Allies forced Poland to move bodily westwards and thus to occupy a large slice of German-speaking territory. But it was new to me that a similar thing had happened in Ruritania. Perhaps this has only now been disclosed from the latest opening of official records under the 30-year rule? Yours sincerely,

E. J. NICKSON. Secretury, Bund of Hope, 31 Lowneld Road, W3. January 11.

in the same A Maria

Matson

Forthcoming . marriages 💆 Mr. P. A. Darling and Miss V. A. Page The engagement's announced between Paul-Animy, elder son of Mr and Mrs Wrim. Darling, of Cleadon Village, Tyne, and Wear, and Valerie Anna, daughter of Mr and Mrs C. A. Page, of Radlett, Hernfordshire.

The emigement is announced between Mark, son of Mr and Mrs M. French, of Clements Reach Meopham, and Rohaise, daugher of Mr and Mrs D. Doule, Foreland House, Isle of

Dr R. H. Meyrick Thomas and Dr A. M. McArthur

The engagement is announced between Richard, younger son of Mr T. Meyrick Thomas, FRCS, and Mrs. Meyrick, Thomas, of Farnborough Park, Kent, and Anne, daughter of the late Mr J. M. McArthur, FRCS, and of Mrs P. McArthur, of Blackheath, SE3.

Mr R. G. Hall-Smith and Miss S. E. Dakin,

The engagement is announced between Rupert Gerald, youngest son of Dr and Mrs. Patrick Hall-Smith, of Withdean, Brighton, Sussex, and Sarah Elizabeth, younger daughter of Mr and Mrs Peter Dakin, of Hutton, Brent-wood, Essex. Bedford School

Easter Term begins today with 1,130 boys in the school. I. C. Bilton-Johnson is head of school. R. Cave is captain of hoats and C. J. Bell, captain of hoats and C. J. Bell, captain of hockey. Confirmation will be conducted by the Right Rev Cyril Tucker, formerly Bishop in Argentina and Eastern South America, on February 22. The choral society's concert will be held in the great hall on Thursday, March 11 at 7.30 pm. The appeal for the restoration of the main school building has reached £286,600.

Bristol Grammar School

Term began Wednesday, January
13. The head boy is Stephen
Brooking, 450th anniversary
celebrations includes thoral and celebrations include: choral and orchestral concert in Bristol Cathedral on March 17; Charter Day service in the cathedral on March 20 (preacher, the Very Rev Sidney Evans (OB), Dean of Salisbury); Old Bristolians' Society dinner, March 20 (guest of honour, Mir Edward Heath, MP); Open Day at Tyndalls Park, March 24. Term ends on March 26. Examinations for 11-plus candidates are on February 6 and for 13-plus candidates on February 6 and Sunday, January 24. Term ends on March 25. ry 9. The 450th Anniversary Appeal stands at £335,000.

Culford School

Spring Term begins at Culford School today. The acting headmaster is Mr David Anderson while Mr Derek Robson is on a sabbatical tour of the United States and Far East, Richard Guy becomes bead boy. The Caucasian Chalk Circle by Bertolt Brecht, will be performed on February 17-19 in the Centenary Hall. Term ends on March 31.

Moreton Hall

Mr N. C. Hunter
and Miss S. C. Warnock
The marriage has been arranged
between Neil, eider son of Mr W.
Hunter, of Glasgow, and of Mrs
M. Hunter, of Strathaven,
Lanarkshire, and Sheona, only
daughter of Dr and Mrs J. M. T.
Warnock, of Tarbolton, Ayrshire.

Mr A. P. Gearing and Miss M. L. Lethbridge

The engagement is announced between Alan, elder son of Mr and Mrs G. H. Gearing, of Wimbledon, and Mary Louise, elder daughter of the late Mr John Lethbridge and Mrs Diana Lethbridge, of Wimbledon.

The engagement is announced between James, son of the Rev Canon H. R. and Mrs Mumford, of Cerne Abbas, Dorset, and Susan, daughter of Mrs Wayne and the late Mr R. F. St B. Wayne, of Colkirk, Fakenham, Norfolk.

The engagement is announced between Coin MacDonald, eldest between Cohn MacDonald, eldest son of Mr C. B. Rowan and the late Mrs E. J. Rowan, of London, and Katie, eldest daughter of the late Mr W. Smith and of Mrs F. Smith, of Waterford, Republic of

Dr T. M. Tayler
and Dr J. A. M. Jackson
The engagement is announced
between Timothy, son of Dr and
Mrs R. G. O. Tayler, of
Merstham, Surrey, and Judith,
daughter of Dr and Mrs M. A.
Jackson, of London, SW19.

Mount St Mary's College

Spring Term begins today. The scholarship examinations will held on February 14, 15, & 16. The London dinner will be held at the Law Society Hall on Shrove Tuesday. The reunion will take place at the Mount on the weekend April 24/25. Term ends on April 1.

The Oratory School

Lent Term begins today. The school captain is P. J. P. Roberts. Captain of soccer is D. G. Sutherland. Half-term will be from February 17-21. The school play will be performed on March 20 and 21. Term ends on March 24.

Spring Term begins today at Plymouth College, M. Yeatman becomes head of school and J. P. Rucker deputy head of school. I. Waldock is captain of sevens. Confirmation Service is by the Right Rev E. A. J. Mercer, Bishop of Exeter, at 10.30 am, on Sunday, January 24, Term ends on March 25.

The Richmond **Tutorial College**

Easter Term begins today. Daniel Pearl is head boy and Lisa
Davidson is head grrl. Exeat is
from February 12 to 15 and term
ends on April 1.

Royal Grammar School, Guildford

Lent Term began on January 11, with 685 boys in the school. The

Luncheons

Lord Trefgarne, Parliamentary Under-Secretary for Foreign and Commonwealth Affairs, was host yesterday at a luncheon given at Lancaster House in honour of Mr Frigyes Puja, Minister for Foreign Affairs of Hungary.

Coachmakers' and Coach Harness Makers' Company
A court huncheon of the Coachmakers' Company was held at Tallow Chandlers' Hall yesterday, at which the Master, Mr J. S. F. Hogg, presented the Coachmakers' Award to Industry for, 1981 to BL Cars. Mr R. Horrocks received the award on behalf of the company, which was also represented by Mr H. Musgrove, Mr A. G. Ball and Mr M. B. Loalee. The Master of the Bakers' Company, Mr F. A. Taylor, was also a guest of the company.

Dinners Hill Santiel Group

Hill Samuel Group
A dinner to mark the 150th anniversary of Hill Samuel Group was held at Painters' Hall last night. Sir Robert Clark, chairman, and the Hon Peter Samuel, deputy chairman, were the hosts. The guest of bonour was Mr John MacGregor, Parliamentary under Secretary of State for Industry, and other guests included:

Mr Gerdon Hichardson, Governor of the Benk of England, and Mrs Richardson, Viscount Bearsted, Lord and Lady Kearton, Lord Keith of Cast Pacer, lord and add Stretted.

Six Puscre, Lord and Stretted. Six Dearched. Six Puscre, Lord and Lady Hartson. Sir Michael and Lady Edwardes. Sir Erneal and Lady Hartson. Sir Maurice and Lady Hodgson, Sir James and Lady Menter. Sir Harry and Lady Moore, and Sir David Grr.

HM Government
Lord Carrington, Secretary of
State for Foreign and Commonwealth Affairs, was host yesterday at a dinner given at
Admiratry House in honour of Mr Frigyes Puja, Minister Foreign Affairs of Hungary.

Royal Institution of Chartered Surveyors
The annual dinner of the land agency and agriculture division of the Royal Institution of Chartered Surveyors was held last night at the Hotel Russell. Mr M. H. A. Fraser, president of the division, was in the chair and other speakers were the Bishoo other speakers were the Bishop of Bath and Wells, Mr N. E. Elliott, and Sir William Rees-Elliott, Mogg.

Latest appointments Latest appointments include: Mr G. V. Marsh to be deputy Health Service Commissioner (Ombudsman) for England, Scotland and Wales from March, in succession to Mr G. Weston, who

succession to Mr G. Weston, who is retiring.
Mr Michael Faber to be director of the Institute of Development Studies, Sussex University.

Lord Cornwallis

Services of thanksgiving for the life of Lord Cornwallis will be held on Monday, January 25, at St Margaret's, Westminster, and on Monday, February 1, at Ali Saints Church, Maidstone, both services at noon.

Queen's visit to Edinburgh

OBITUARY

MAJOR-GENERAL

F. C. ROBERTS, VC

Bravery during the German

offensive of 1918

Major-General Frank Crowther Roberts, VC, DSO, OBE, MC, who was awarded the Victoria Cross in recog-

the Victoria Cross in recognition of the bravery and military skill he displayed at Pargny, near Peronne from March 23 to April 2, 1918, died on January 12 at the age of 90. At the time he was serving with the 1st Battalion, The Worcestershire Regiment to which he was gazetted when he entered the Army in 1911. He went to The Royal Warwickshire Regiment when he obtained his majority in 1927.

Born on June 2, 1891, Frank Crowther Roberts was the son of the Rev. Frank Roberts. He was in France from the outset of the war and was still a lieutenant when on January 3, 1915, he

when on January 3, 1915, he won the DSO.
In October, 1917 — the

year he won the MC — he was given command of the first battalion of his regiment with the acting rank of lieutenant-colonel.

The award of the MC rese

lieutenant-colonel.

The award of the VC was made to him for continuous bravery over a period of 12 days during the desperate fighting which took place at Pargny, near Peronne, in March and April 1918 when the repeated onslaughts of the enemy necessitated the strategic retirement in places, of the British troops. Throughout Roberts showed

places, of the British troops. Throughout Roberts showed bravery, as well as exceptional military skill in dealing with the many very difficult situations of the retirement, and great endurance and energy in encouraging and

westminsters K.R.R.C. (T.A.), he served in Military intelligence. After the war, he managed the Clan Line.

he managed the Clan Line office in Glasgow, becoming a director in 1947. In 1956, Bernard Cayzer was made a director and deputy chairman of the British and Commonwealth Shipping Company where his responsibility for staff welfare and the customer relations side of shippowning drew on his

Nelson Hotel in Cape Town, hotels in the Canaries and, of course, the beautiful laven-der hulled ships of the Union

Castle Line which, in their

Professor Harry Geoffrey Hopkins died suddenly on January 4, at Goostrey, Cheshire. He was 63.

He had held the chair of

Applied Mathematics at he

Applied Mathematics at he University of Manchester Institute of Science and Technology since 1966 and enjoyed a distinguished international reputation in the field of the Mechanics and Physics of Solids. He was a graduate (later a Fellow) of University College London

University College, London,

and spent the earlier part of his career in the Scientific Civil Service. He held posts at the Royal Aircraft Establish-ment, Farnborough, and later

became Deputy Chief Scien-

tific Officer (receiving the Appleton Individual Merit Award) at the Royal Armament Research and Develop-

MR B. G. S. CAYZER

Mr Bernard Gilbert Stan- The Royal Crescent in Bath comb Cayzer, who died on which, through the Bath December 27, was a leading though unassuming phil- to restore and furnish in its

though unassuming philanthropist and a member of
the notable shipping family.

Educated at Eton and
Magdalene College, Cambridge his early business
career with the family's Clan
Line was interrupted by the
Second World War in which,
as a major in the Oueen's

to restore and turnish in its
original Georgian splendour.

The day in 1957 when
Bernard Cayzer joined the
Feathers Club Association
was a furtunate one for their
youth clubs in the more
deprived areas of London. He
became chairman in 1970 and
from then on was the

Bernard Cayzer was made a director and deputy chairman of the British and Commonwealth Shipping Company where his responsibility for staff welfare and the customer relations side of shipowning drew on his capacity for caring for others in a way which humanized the company's activities and helped to build a uniquely successful business.

His inherent good taste and eye for colour helped with the design and decor of the Wellington Hospital in London, the B&C Group's Mount Nelson Hotel in Cape Town.

heyday, were always sent on duty as pleasure, upheld a their way from Southampton notable tradition and, follow-by Bernard Cayzer at 4 ing the motto of his family

o'clock on Thursdays. company "Tendimus" ("We His love of architecture led Press Forward"), left this life

PROFESSOR H. G. HOPKINS

to him buying, in 1967, No. 1 better than he found it.

inspiring all ranks under his

On one occasion the enemy launched a strong attack against a village, and almost cleared it of British troops.

At that critical moment, Roberts realized the serious-

ness of the situation, and getting together an improvised party of men, led a counter attack in person, with the result that the

enemy troops were tempor-arily driven out of the

arily driven out of the village. Roberts's party were thus able to cover the retirement of troops on their flanks who would otherwise have been cut off. The success of the action, it was stated when the notification of the award of the Victoria Cross was published in the London Gazette of May 8, 1918, "was entirely due to his personal valour and skill". In the course of the War he was wounded three times, repeatedly referred to in orders, and mentioned in dispatches seven times.

seven times.

After the war, Roberts served for a time with the

Egyptian Army. After leaving Egypt he went to the Rhine Army as brigade major, and stayed there for nearly a

Subsequently he saw service in China, Iraq, Ireland and India. He was promoted Major-General in 1939 and Cotober that

Major General in 1939 and from June to October that year commanded the 48th (S Midlands) Division, TA. He married in 1932 Winifred Margaret, daughter of J. D. Wragg. She died in 1980.

was a fortunate one for their youth clubs in the more deprived areas of London. He became chairman in 1970 and from then on was the association's inspiration and their factors.

chief benefactor. A frequent visitor to the clubs, he supported youth leaders and,

knowing many members by name, worked to widen the opportunities available to

in heart valve surgery.
Although he died a bachelor, all friends felt related to

this man of many parts. He spurned reward, looked upon

ing the motto of his family

He was the editor of the journal of the Mechanics and

Physics of Solids, a member of the UMIST Court, 1969-71, UMIST council, 1974-76, vice-

principal for finance, 1974-77,

and deputy principal, 1976. He was chairman of the

Structure Sub-Committee of

the Aeronautics Research
Council, 1976-77, and a
member of the Airframe
Materials and Structures
Committee, 1977-80. He was
elected a Fellow of the
Institute of Mathematics and
Its Applications and of the
Royal Astronomical Society

Royal Astronomical Society in 1964, and a Fellow of the American Society of Mechan-

He was much respected by all who knew him for his

kind and gentlemanly man-

ical Engineering in 1979.

The Queen's public engagements during her annual stay at the Palace of Holyroodhouse, in Edinburgh, were announced by Buckingham Palace yesterday.

On June 28, she will visit the 207 (Scottish) Air Defence Battery of the Royal Artillery at Edinburgh Castle. The next day the Queen will visit George Watson's College, Edinburgh, before amending the regimental dinner of the Royal Scotts Dragoon Guards at the Signet Library as Colonel-in-Chief.

On June 30, the Queen will open the new department of biochemistry at the Moredun Institute of the Animal Diseases Research Association. The next day she will visit Fife with the Duke of Edinburgh.

On July 2 the Queen and the Duke will artend a service of installation for Knights of the Thistle at St Giles' Cathedral before giving a Thistle hunch at the Palace of Holyroodhouse. In the evening they will attend the centehary bell of the Royal Scottish Pipers' Society in the Assembly Rooms.

Latest wills

Latest wills
Latest estates include (net, before tax paid):
Ireland, Mr Sidney Joseph William, of Cowes. £213, 382
Smith, Mr George Cecil, of Oaks in Charawood, near Loughborough, farmer and coach builder. £1,209,962
Standish, Mr Alfred, of Norting Hill, London. £364,396

Margaret Foreman, aged 30, with her portrait of Lord Butier of Saffron Walden, CH, which was unveiled at the National Portrait Gallery yesterday. The commission was part of an award by Imperial Tobacco. The artist also received £4,000 in prize £1,000 Premium Bond prizewinners

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THE TIMES THUKSDAL JANGARY 1, 200

Moreover... Miles Kington

frothy but melancholy Viennese comedy to out-of season Frinton, where eight gloomy suburbanites pair off in different combinations but different combinations but country house by the nonnever quite make it. To make arrival of the Sunday newsmatters worse, the canapes
run out in the second act.

In a emed black arristes (four
very thin tall men and four
very fat women) swop partmatters worse, the canapes
papers. Who is with whom
ners constantly. The message
and why? Inspector Freud
seems to be that casual matters worse, the canapes run out in the second act. Just before the final curtain Frinton is destroyed in a first-wave Russian nuclear attack, but it hardly seems meaningless if not followed 84, to make much difference. by a good juicy murder or (Chaillet): Highly recommended.

simulated sex can only lead to simulated happiness. joyous evening of 1920s song, the Mousetrap (St Martins): dance and jazz. Eight tal-Eight people trapped in a ented black artistes (four and why? Inspector Freud seems to be that casual arrives to try to work it out. Agatha Christie seems to be less followed by casual singsaying that casual sex is ing. meaningless if not followed 84,

Now that Schnitzler's La Stoppard's bravura adaptation of La Ronde; fizzing after 50 years, there are already more than 43 productions of it on show, including adaptations. Here is a list of the most interesting.

Now that Schnitzler's La Stoppard's bravura adaptation of La Ronde; fizzing ence of Schnitzler's gay but frothy comedy to the Bog-side, where it becomes an indictment of the British Army for using cheap Austrian psycho-analysts as their duction which captures all chief torture squad. Bogdathe specially (proposed (Scars the sparkling yet melancholy ing.

duction which captures all chief torture squad. BogdaDiametrically Opposed (Scarborough National State feel of the original, though that sex is meaningless
Theatre): Alan Ayckbourn echoing Paul Raymond's culess done very loud.

has transplanted Schnitzler's underlying philosophy that Black Ronde (Sheridan Mor-

Karingkreuzstrasse (Chaillet): An American woman writes to eight differ-Highly recommended.

Schnitzler! (Shulman, The No Sex Please — We're ent Viennese bookshops ask-Strand): Michael Crawford Austrian! (Billington): A ing for literature of a certain on the high wire, with seven rather trad comedy adaption of high wire, with seven rather trad comedy adaption. When she gets no different partners. Check to tation which makes fun of answers, she finally comes to with 685 boys in the school. The choral society will perform Carmina Burana in the Civic Hall on the Civic Hall on the high wire, with seven in Service of Confirmation on February 25. The entrance and Scholarship examination will be held on February 2, all enquiries should be made to the principal.

with 685 boys in the school. The choral society will perform the Schoil and perform of Carmina Burana in the Civic Hall on the Civic Hall on the Civic Hall on the high wire, with seven and content trade comedy adapting the performances of Twelfth Night in different partners. Check to make sure understudies are not being used.

On The Rondo (National The No Sex Please — We're ent Viennese bookshops ask-ing for literature of a certain kind. When she gets no answers, she finally comes to the eponymous nationality. Should end soon. Should end soon. On The Rondo (National The Viennese in Britain (The Viennese in Britain (The No Sex Please — We're not Viennese bookshops ask-ing for literature of a certain kind. When she gets no answers, she finally comes to the eponymous nationality. Should end soon. On The Viennese in Britain (The Viennese in Britain (The No Sex Please — We're not Viennese bookshops ask-ing for literature of a certain kind. When she gets no answers, she finally comes to the eponymous nationality. Should end soon. On The Viennese in Britain (The No Sex Please — We're not viennese bookshops ask-ing for literature of a certain kind. When she gets no answers, she finally comes to the eponymous nationality. Should end soon. The Viennese in Britain (The No Sex Please — We're not viennese bookshops ask-ing for literature of a certain kind. When she gets no answers, she finally comes to the eponymous nationality. Should end soon. Should end soon. The Viennese in Britain (The No Sex Please — We're not viennese to vient viennese to vienn

Birthdays today



Miss Maina Gielgud, the ballerina, who is 37.

Captain Alastair Aird, 51; Pro-fessor Sir Melville Arnott, 73; Mr Peter Barkworth, 53; Mr Richard Briers, 48; Baroness Brooke of Ystradfellte, 74; Lord Catto, 59; Mr Trevor Nuon, 42; Sir Neil Pritchard, 71; Sir Percy Rugg, 76; Dr Solomon Wand, 83.

University news

Vienna, Jan 11. — Workers at a Budapest engineering works struck today because of a report that wages were to be reduced by 200 forints a mouth. Workers at the neighbouring factories also struck. The strikers demonestrated against economic contrated. struck. The strikers demonestrated against economic conditions and attacked the Kadar Government. Soviet tanks surrounded the factory. Hungarian militia were posted outside the locked gates and shots were fired. Western Correspondents were not allowed to enter the cordoned-off area. The tension is not being alleviated by the death penalty pronounced today by a court martial in BEKESCABA on a man and a girl aged 20 for a man and a girl aged 20 for taking part in open rebellion. Fifteen others were sentenced to terms of imprisonment ranging from five to 15 years.



The fellowing awards, appointments and elections have been ments and electrons have been made:

H W C Davis prize: Y Chang (Ballot):
Book prizes: CJ Buicher (Mapdalon):
GF Cooper (Si John's). R K Harrison
GF Cooper (Si John's). R K Harrison
GLincoln). J G Hudson (Worcester)
and M R Kaniffmann (Morion):
Charles Oldham Shakespeare prize:
Mobson (Christ Church) dolinty:
Anionio Felivinelli prize. Professor
Michael Aliyah. FRS (Si Calherine's).
O Dohneil ectureship in Celite sindies
of Davis. Mendy Davies. BA. PhD.
Louisechty Collogic London.
Ireland and Craven scholarships:
Dean Ireland scholarship: A J
D'Angour. Porsumatter of Merion
College: First Craven scholarship: M Scholarships: Second Craven scholarship: M Scholarships: Second Craven scholarship:
Marrayet Hall.
ST CROSS: official fellowship: O M
Model A. Scholarship (Marrayet Hall.
ST CROSS: official fellowship: O M
Model A. Marrayet Hall.
MADHAM: Scholars: M H Conway.
WADHAM: Scholars: M H Conway. ORIGINA Provest of Trully Colored Walls, MA. Provest of Trully Colored Wallams. Schoolars: M. H. Conway, Penelpia School, Aberystwyth, and T. P. Y. Pang. Ying Wa. Girls. School, Hongkong.

Glassow Dr Anthony J. Sanford, reader in psychology, has been appointed to a chair from October 1, 1982.

25 Years Ago From The Times of Saturday January 12 1957

New violence in Budapest

ment Establishment, Fort Halstead. He also held Visitner and for his great sense of fairness and the objectivity which he brought to bear ing Professorships at Washington State University and Brown University in the throughout his work on a multitude of university committees.

MISS BERTHA JAMES

James, OBE, who died on January 7 at the age of 84. was a former Mayor of Bromley. Her life was devoted to public service and there was scarcely an organization in Bromley and the surrounding district set up to help those needing help with which in her long life she had not been connected. One of five sisters she was educated at Roedean and

university women's tennis team and retained all her life she worked in Civil Defence driving an ambulance. In 1946 she was elected to the former Chislehurst and Sid-cup Council of which she became chairman in 1963-64. On the formation of Bromley Rorough Council in 1964 she

or which she She had been chairman of the family practitioner committee of Bromley Area Borough Council in 1964 she was elected for the Chisle-hurst ward and was made an lege.

Mr Denis O'Neill, CB, who died on December 22 at the age of 73, retired in 1968 as Under-Secretary, Ministry of Transport. He was private to f Sir David Wilson, Bt, secretary to several Ministers and she married Sir Arthur Caye as his second wife

Bertha Holland alderman three years later. DBE, who died on In May 1970 she was elected mayor. She pursued her particular interest in health, welfare and education on Kent County Council, on which she sat from 1958 to 1965. In 1972 she was made OBE for her work for the elderly in north-west Kent. She was founder chairman of Age Concern in Bromley

and a member of the Kent Council of Social Service. Newpham College Cam She was a founder member bridge. She captained the of the North West Kent Housing Society and worked team and retained all her life hard in support of schemes to build flatlets for the lin the Second World War she worked in Civil Defence tion engaged in building driving an ambulance. In homes for those unable to

First-class honours degrees at polytechnics BSe Biological Sciences: J Chesham, Manda E Gent. Dierdre A Small, G G Townsley, BA Graphics Design: N L Gitson, S E Hudson, D C Waddicor, SA Architecture: C D Bown, S JA Noblei

The following polytechnic stu-dents received first class honours degrees in 1981:

Polytechnic of North London BA English: J Burnes, B P Butler, D S Goldwaler, BA French: Chantal M 'Caipinl, Naurika F G Lenner, BA Modern Studies: J Keaje, urika P G Lenner. Modern Studies: J Keale. c Geography: B Nicholson. c Architecture: B G Morris. Anne M

Towers.

Bse Physics and Physical Electronics:

J Purser. Palymer School and Technology . Wah Tang Peter. Log Wah Tang Peter.

83c Chemistry: Kryss Kaislavriades.

83c Stanistrs, and Computing: Alison J

Douglas. J Georgion. Maria Panayi.

Lee Fang Soh.

Bachelor of Education: P A Barnard. D

J Coates, D T Curtis. Gillian Hibbs.

Deniso W Lamb. D Love, Marie T Reed.

Elaine C Richards, Carol Ross.

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International Marketing: P R. ardner. A Political Economy: P W Francis. C Masschester Polytechnic tembleed Studies: A J Chirinos-n, A Patter. Mechanical Engineering: S A , K W West hysics: R W Hiles. Hymne Science and Tembrate or Hymne Science and Tembrate or

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IA Fine Art: Helen F S Crulks. B Cowney. P M Mountain, Judith AL An. A Three Dimensional Design: Jane A tam. Susan M Cratwell, R Walson, Illian B Whalley, R N Wright Gillian B Whalfey, R N Wright.
Textiles / Fashbus: Nicola Durrant,
Choryl Jelic, N G Liderth, Kathleen A
Newington, Jill Richardson, Margaret
A Sellers, P Thomas.
BA Psychology: Valerie P Cuttling,
Humanities/Social Studies: Martine A
Hittory, of Designe: Anne B Hayward,
Carol E Maunde.
BA Bealance aroj e Maunoe. 14. Besiness Studies: Elizabeth M Idams. J M Allegro, Linda Clements. Jusan Clifford, Jacqueline Davies, S Jawkins. N Howell. Dedeler of Education: Wandy Twests. Newcastle upon Tyne Polytechnic

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ic Applied Economics: Charalambos BSc Sociology: R H MacLennan. risline E Wardle.
Saciology: R H MacLennan.
Psychology: N G Morria.
Applied Chemisery: Barbata
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lard, E D Ramsey.
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Oxford Polytechnic hitectural Studies: J D Brown. BA Architectural Studies: J D Brown. N G Spawion. R L Yalet. BA Business Studies: N J Carpenier. K

oper.

Modelar (Law and Psychology):

M Mocock.

Modelar (Anthropology and
ography): C N Shore.

Modelar (English and Sociology):
hothers I. Smith Modular (English and Sociology); 1737 L Smith. Modular (History of Art and 1ch Literature): Elizabeth H weetman.
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See Modular (Blobogy and Environ-mental Blaicogy): D.S. Coumbes. 36c. Modular (Geology and Environ-ment): 1 P.Gross. 55c. Medular (Anthropology and Education): Farina M.Nagarwalia, 1 Control of Control of Con-trol of Control of Plymouth Polytechnic e Biological Sciences: Gilliam. M unsey, Christine M Smith. E Civil Engineering: J C H Mackie. Combined Studies: R Browning.

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Communication Engineering: K I

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Portsmouth Polytechnic nputer Science: Gillian A ry. Electrical Engineering: P J Blics, n Tak Ka, Liew Choon Chin, Sze-ng Keung, S J Goldsworthy, D.L. Richard Engineering: Chang Seew unt. K M Clarke, J L Swan. Seew unt. K M Clarke, J L Swan. J Golffin, M R Parryan J Boach, R J Liss Nicholls. DH Young.

BA Architocture: PLo.

BA Business Studies: C Avery. C J

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Preston Polytechnic Electrical and Electronic Englishing: N Harrison

Smith.

BA Business Studies: I R Anderton.

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BA Fine Arthi J Ives. A J Lysycia. K

McCluskey.

BA Graphic Design: Janualina Cobb. R

A Rowinski, J G Rushworth. Sheffield City Polytechnic F Macpherson.

BSc Applied Service: S E Franklin, D A

Johnson.

SSc Applied Stastistics: 1 and 1 and

Control Engineering: S N debottom.

K Engineering: A Branson, G Clark,
Redhalf, K D Thornhill.

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K Urban Land Economics: G F thing and Jewestery,
Bush.
History of Art, Design and Film: Rinsery of the Rose.

Flee Art: A E Edmonds. T P. Syralcy. Deborah J Higgins. R B B. Capan. Anne Lydal Julie S. Capan. Higgins. R B. Steries. Higgins of Writh.

Environmental Studies: R A

Sunderland Polytechnic Givil Englacering: A E Comp Sin Can. n Sin Gan. c Electrical and Electronic Engla-ing: I R libblisop. c Mechanical Engineering: M P itt Communiation Stedles; Christine H kley, R A Harrison. Susiness Studies; P F Gordon. Fine Art: Valorie Close. Yuk Ying Combined Studios in Science:

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BSc Cerputer Science: H Tin. S

Wells, Ting S Wong.
BA Basierers Studies: P F Dwver.
BA Homanides: Jean E Woodhouse.
BA Three Dismonstrate Design (tester Design): Janice Websier, G V

Trent Polytechnic Applied Biology: A J Newbould.
Applied Chemistry: Paul C Controlly. BSc Applied Chemistry: D Holmes. sley. : Civil Engineering: C M Harris, S A Predection Engineering: P H Bye, Guiteridge, C A Siwka, Guiteridge, C A Siwka, Quantity Servering: R N Baylla, B V Meader, Letter Servering: C Grant Servering: C Guiter Servering: C H Hankin, E M Hankin, E M Hankin, E M Hankin, E M Hankin, B M J Day, Janel P.

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The Polytechnic, Wolverhampton:
SSC Applied Chemister: V Bradley. N
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UK hopes in £800m Saudi power plan

By Rupert Morris
The British electricity
supply industry has won an important victory over American competition in Saudi-Arabia by persuading the Saudis to adopt a system that will favour British manufac-turers, bidding for a share of work worth £800m.

British Electricity International, the overseas consultancy arm of the Central Electricity Generating Board, is advising the Saudis in Riyadh, the capital, where a £40m supply system is planned, with much of the construction, electrical and construction, electrical and control equipment hopefully to be supplied by British

But the bigger prize is the national grid system which will cover 5,000 miles and cost about £800m to build between now and the year 2003.

The Saudis are working to a plan prepared by the American consultant Charles T. Main, but have rejected its advice in two significant areas.

The American system, based on gas turbines would use voltages of either 220 kilovolts or 500kv. The system favoured in Europe is 400kv, and BEI's representations to the Saudis have been supported by the French, who are influential in the south, and the Germans, who have a foothold in Jeddah and the west. A 380kv system is now expected to be adopted

nationally.

The Saudis are also moving away from reliance on gas turbines in favour of thermal steam plant, with big power stations cooled by sea water on both the Arabian Gulf and Red Sea coasts. BEI reckons the new system will save 70 million barrels of oil a year.

parrels of oil a year.

It has been a deliberate
Saudi policy to have a multiplicity of foreign technical
advice and BEL which has a 90man team in Riyadh, seems to have won increasing Saudi

BEI's success is all the more welcome as Britain has lost ground 10 years ago with the Saudis' decision to opt for American frequencies of 60 bertz, rather than the British 50 hertz — giving American manufacturers a head start.

The new electricity programme will provide opportunities for British firms to

mittee yesterday criticized an EEC directive for failing to insist that all banks should be forced to publish financial statements showing their

true profits and reserves, and

asked the Government to

press strongly for an

amendment.
The Lords European
Affairs Committee, under the

chairmanship of Lord Plowden, objected to a clause which would enable banks

throughout the European

Community to maintain un-

disclosed reserves in their accounts, and said the pur-pose of the directive will be

First step by a'Court to capture ACC

Robert Holmes a'Court last night took the first step towards making a takeover bid for the voting shares of Lord Grade's Associated Communications Corpor-

His proposals to surmount the major obstacle to gaining control of ACC — cutting back the 51 per cent which ACC owns of Central Independent Television — were given to the Independent Bradcasting Authority late last night. The IBA said that a decision on the proposals a decision on the proposals, details of which were not known, would be made after they had been considered and a meeting of the Central Independent television board this morning this morning.

The IBA said that Mr Holmes a Court has given it notice that he was making what they described as an offer for ACC.

The IBA has already said that it will not agree to a non-British resident controlling a United Kingdom

on the Stock Exchange on Monday pending an anchange of control of the company. At a suspension price of 54p, the company was worth around £29m. Mr Holmes a Court, who joined the board last monthand took. 3 per cent of the voting chising the non-voting shares, spent most of last year picking up more than 50 observations of his past per cent of ACC non-voting stock, now worth £15m.

It is widely expected that his plan will mean the end of the spent to be an influential newschairman of a company he maper and television owner.

voting shares and it is by the Post Office pension believed that he will sell Mr Holmes a'Court enough of near £750,000 golden handthese to give the Australian shake to dismissed managing control, and then take a role as president of the company.

But the move by Mr Holmes a'Court over ACC is thought merely to be the first of many in the United Kingdom. Australian sources

iralian sources fittings, process plant and high technology control systems. say he has identified between pay over any money or sell technology control systems. Lords seek disclosure by banks

By George Clark, European Political Correspondent

A House of Lords comvitiated if this was left in.
deposits should be outside its
scope, the committee says.
Strong arguments were put
by the Accepting Houses
Committee and the London

Another recommendation is that the directive should

and trustees savings banks under the same accounting regime as banks and licensed

cover substantially all witness deposit-taking institutions, hostile, whether or not they are limited companies. That banks a would put building societies create

eposit-takers.

Institutions which grant
redit without taking banks (HMSO, E6.35).

were disclosed."



assets within the group which he could liquidate to finance the purchase of a new company, Fleet new company, Fleet Holdings, being set up by fellow ACC director, Lord Matthews, which will include all Express Newspaper titles, Morgan-Grampian and the South Wales Argus. The publications are at present owned by Trafalgar House.

According to Australian analysts, a clue to Mr Holmes analysis, a cine to the homes a Court's intentions will come from which of his companies he uses to gain control of ACC. They say that if he uses a loss-maker, it will indicate that he intends to sall on to a third intends to sell on to a third party, possibly after enfran-chising the non-voting shares. This is based on observations of his past

Lord Grade as £293,000 a year to be an influential newschairman of a company he built up over 25 years but which lost £8m in the first half of this financial year.

Lord Grade can influence around 27 per cent of the institutional shareholders led voting shares and it is by the Post Office pension believed that he will sall Mr.

Strong arguments were put by the Accepting Houses Committee and the London Discount Market Association

for allowing undisclosed reserves, but non-banking witnesses were overwhelming

The directive would allow

banks and the institutions to create undisclosed reserves

by undervaluing their loans and advances by up to 5 per

Lloyd's to pay for Gulf war ship's bill

A judge has ruled that Lloyd's of London underwriters are responsible for what may be a \$100m (£53.3m) insurance bill for some of the 70 ships held up in the Shatt-al-Arab waterway as a result of the Iran-Irao war.

way as a result of the IranIraq war.

Mr Justice Staughton yesterday gave his decision on a
dispute involving a Germanowned ship, the Bamburi. It
is being used by underwriters
in establishing guidelines to
determine whether those
writing war risk business or
those writing blocking and
trapping business will have to
meet shipowners' claims.

The judge decided that
there was a "restraint of
princes", which means that
vessels had been stopped
from sailing in the Gulf since
the date the Iraq Government
prevented navigation in the
waterway, but that this could
not be considered a peril of
"hostilities or warlike oper-

"hostilities or warlike oper-

between such a peril and the apprehension of it, the judge

said.

Legal experts last night interpreted the decision as meaning that underwriters of war risk clauses are liable for claims, except where there are clauses, known as "long J exclusions", which specifically exclude the Gulf region from claims resulting from "restraint of princes".

Ships have been held up in the Gulf for over a year. They have a total insurance value of around \$400m. Some claims have already been

claims have already been settled, but others have been awaiting the outcome of Justice Staughton's decision.

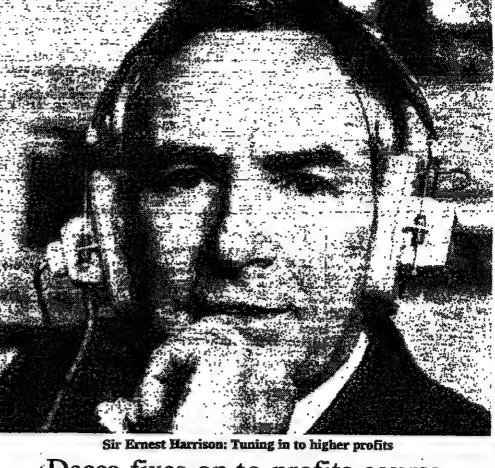
GOLDFINGER ON LLOYD'S COMMITTEE



Lloyd's underwriter Mr Ian Posgate (above) has been Posgate (above) has been elected to the ruling committee of Lloyd's, the London insurance market, by the narrowest of margins. In the first by-election for a new member following the sudden resignation of Mr Robert Kiln last November, Mr Posgate received 1,264 votes — 27 more than Mr Peter Daniels, the managing direct Daniels, the managing director of Lambert Brothers (Underwriting Agencies) who stood against him.

Nicknamed "Goldfinger" in the market because of the

success of his underwriting syndicates, Mr Posgate has attracted criticism for his aggressive and competitive style and for the stance he has taken on the Lloyd's Bill. He said he would fight to preserve free trade for the



Decca fixes on to profits course

poration, the main suppliers of frozen hamburgers to the vast McDonald's fast food chain, in a deal worth \$69.13m (£37m).

Northern, whose customers also include Marks & Spencer and Sainsbury raised felin by a rights issue in November and has since been

expected to further its presence in the United States.

In 1980 it paid 235m to buy Bluebird Foods of Phila-delphia. To buy Keystone, which is 22 per cent owned

by 'Mr Herbert Lounan, chairman and president, with his wife, Northern paid \$22 for each share which had

been trading at \$15%-16 before the bid.

Mr Jack Clayton, North-ern's finance director, said yesterday he expected about

half the cash for the deal would come from the pro-

ceeds of the rights issue, although final details of financing have not been

Speaking from Philadel-phia, Mr Nicholas Horsley, chairman, said he expected the other half of the \$69m

purchase price would be financed through new debt. In the 9 months to

November, Keystone recor-ded pretax profits of \$7.8m, a

70 per cent increase on \$4.5m

last year. Sales grew 13 per cent to \$357m. Over 90 per

cent of the company's output goes to McDonald's, rep-

worked out yet.

Northern Foods in

£37m American deal

By Drew Johnston

Decca is poised to make a last year on the ailing stong contribution to Sir television to marine radar Ernest Harrison's Racal business. Thanks to the sale Electronics group. After of its colour television businessing off GEC in a £195m ness and loss elimination takeover battle almost two elsewhere, Decca contributed years ago, Racal lost £2.4m £5.27m to Racal's first half

of frozen hamburgers. Mr Clayton said this operation is

fairly modest, but Northern, which has no fast food outlets, expects this to grow along with the McDonald's chain.

Further growth of Key-stone's United States oper-ation is expected to come

And while market opinion

is that the hamburger market

in the United States is fairly

mature, diversification into chicken based-products, such as the McDonald's "Chicken

as the McDonald's "Chicken McNuggets", is expected to provide opportunities for

Northern's ordinary shares

dipped Ip yesterday on news at the deal. "Keystone pro-

vided all the poultry products for McDonald's, but has recently been joined by a second supplier, Mr Horsley

Under the terms of the deal, which will have to be

approved by the companies shareholders and both

governments a new company will be set up and Mr Lotman will stay on as chief execu-

Financial Editor, page 15

ucts to McDonald's.

pretax profits, compared with losses of £5.2m for the same period last year. Racal's first half profits rose 45 per cent to £38.4m on a 26 per cent sales gain to £304m.

TREASURY OPTIMISTIC ON OUT UT

By Francis Williams

Northern Foods, the Hull-based dairy products, meat of the food chain's total and cereals group has bought the American Keystone Cor-Keystone also has a joint venture operation with McDonald's British affiliate for the manufacture and sale

Economic Progress Report,
It takes a significantly
more optimistic line than some other ananlysts, including the Bank of England who fear that productivity gains will be largely dissipated once economic growth gets under way because employers will start recruiting much of the labour shed during the recession.

But the Treasury believes

But the Treasury believes ablovers will continue to face strong pressures to restrict recruitment to keep down costs and improve efficiency. It cites expec-tations of "only moderate economic recovery", low profitability in many com-panies and, in manufacturing, stiff foreign competition. over of \$100m (£53m).

Recent steep improvements in productivity may herald a permanent shift to more rapid productivity growth, the Treasury cautiously concludes in an article published yesterday in its

GM and union join hands to cut prices

Detroit, Jan 13. — General Motors' white-collar workers right up to the company chairman will match union wage concessions proposed by the United: Auto Workers and pass the savings directly to car buyers to boost sales, according to a Pteliminary agreement between the management and unions.
Union leaders also outlined

the proposal to Ford Motors today and will tomorrow present them in detail Ford officials declined comment, saying they first wanted a chance to hear the complete proposals and then respond to the union.

But it is not clear whether Mr Fraser's optimism about the potential impact of any labour-cost concessions on car prices, or car sales, is warranted. While the extent of such concessions has yet to be negotiated, the mini-mum \$100-a-car reduction Mr Fraser mentioned would of the average GM car's price. Most industry observers believe it would take a reduction of 10 per cent or \$1,000 to stimulate

cent or \$1,000 to stimulate car sales adequately.

Because of GM's willingness to pass cost savings directly to car buyers, the UAW would be willing to make more extensive concessions than it would have if the benefits were all flowing the benefits were all flowing directly to GM, Mr Fraser said. But he predicted that the concessions would not extend to cuts in car workers' present wages.

Mr Roger B. Smith, GM's chairman, said that GM's concessions held out the prospect of price reductions

prospect of price reductions to new-car buyers. "This could usher in a new era of labour-management cooper-ation because it addresses the ation because it addresses the heart of the problem in our industry today — non competitive labour costs and inflated car and truck prices", he said.

In addition to its agreements covering car-price reductions and "equality of sacrifice", GM also agreed to provide mechanisms that will give IIAW members in

ICI expansion Imperial Chemical Indus-

tries is acquiring, through ICI Americas Corp., full ownership of Rubicon ownership of Rubicon Chemicals as a further step in strengthening its world polyurethanes business.

Building society figures reflect poor homes market

By Lorna Bourke

of demand from homebuyers is difficult to estimate, since the banks have now moved in Recent estimates suggest that the banks may be advancing one in three of all home

tricky position. Net receipts credited for December were better accounts. than expected, struggling up

Depression in the housing from their six-year low of market is beginning to show appearance of the from their six-year low of from the from their six-year low of from the fro ing societies' statistics.

Lending continues to decline and stood at only £800m for December compared with well over £1,000m a month process of the process for December compared with ation, who pointed out that well over £1,000m a month December was usually a poor during the summer. Net new commitments slipped even further to £762m.

Whether this is due to lack

Whether this is due to lack

not obscure the fact that the figures for the year are poor. Net receipts for 1981 fell by nearly £350m, the first decline since 1978, which was the banks have now moved and taken a sizable slice of decline since 1978, which was and taken a sizable slice of down from a record for net receipts of £4,722m in 1977.

none in three of all home loans.

But if demand does pick up, the building societies traditionally rise at the start could find themselves in a tricky position. Net receipts credited to investors' Financial Editor, page15

FT Index 527.3 up 2.7 FT Gilts 62.30 up 0.38 FT All Share 307.45 up 1.23 Bargains 13,169 Sterling

Stock Markets

\$1.8680 down 65 pts Index 90.3 down 0.4

Dollar

- Gold
- \$380.50 down \$8.25 New York: \$412.70 Money Money 3 mth sterling 151/-151/s 3 mth Euro \$141/s-131/s 6 mth Euro \$141/s-141/s

PRICE CHANGES

Rises	
Allied Colloids Boustead Damson Oil Devenish	13p to 155p 8p to 109p 9p to 485p 8p to 298p 9p to 160p
Fisons Gen Accident Horizon Travel	8p to 308p 10p to 308p 10p to 430p
Lloyds Bank Nthgate Explor P & O Dfd	10p to 245p 6p to 139p
Rand M Prop Redfearn Nat Royal	10p to 325p 8p to 126p 8p to 336p 8p to 618p
Unilever	Ob in orch

8p to 399pp Venterpost Falls Anglo Am Corp 21p to 619p Blyvoors 27p to 479p Blyvoors Castlefield 10p to 420p 20p to 325p Chesterfield Cons Gold Fields8p to 452p 9p to 335p 12p to 750p De Beers Did Barrisoa Cros 20p to 670p 31p to 519p 9p to 417p 8p to 167p Rio Tinto Zinc 12p to 363p 28p to 600p

33p to 479p

EEC fights on steel

European Economic Community industry minis-ters gave their backing in Brussels vesterday to Vis-Brussels yesterday to Vis-count Etienne Davignon, the EEC industry commissioner, who has rejected anti-dump-ing complaints brought by eight American steel com-panies against European producers.

They agreed that high wages, obsolete plant and the strong dollar were to blame for the American industry's problems rather than competition from steel imports and are likely to send a message to the American Governmen setting out the EEC case.

Swiss sales hit gold prices

The price of gold slumped to \$378 (about £201) an ounce at one stage yesterday. The fall was triggered by substantial selling out of Switzerland believed to represent liqui-dation of gold holdings by big investors. It closed in London down \$8.25 at \$380.50, its lowest level since November 1979.

Britain's industrial prob-lems continued to depress sterling on world currency markets. It dropped a further 65 points against the dollar to end London trading at \$1.8680, while the index measuring its wider international value fell 0.4 to 90:3.

☐ Statoil, the Norwegian state oil company, announced a new gas discovery yesterday which doubles the country's estimated reserves in its North Sea Sleipner field to at least 200,000 million cubic

BUSINESS BRIEFING

Now coal goes ro-ro

usual bulk carriers. Half a million tons of coking coal will be shipped over two years from Dover to Zee-brugge by the Sea Containers company for the National Coal Board.

The first shipment will be made next month under a contract between the NCB and the Carcoke company of Belgium. Sea Containers, which arranged the deal, will be paid about £2m.

adapted containers is offset profitable later.

Coal is to transported from by savings on handling Britain to Belgium for the charges, and it hopes to win first time using container further orders for the transships instead of the more usual bulk carriers. Half a million tons of coking coal

The deal enables the NCB

to dispose of surplus stocks of coal from its uneconomic Kent coalfields and to maintain its export drive.

Coal exports in this financial year have almost doubled

to nine million tonnes, Sir Derek Ezza, NCB chairman, said in Glasgow yesterday. Much of this coal is sold at a loss — and the Belgian deal is almost certain to be a lossmaker — but the Board believes that export links The company says much of believes that export links the extra expense of specially established now may become

The Ferranti unit, called

Make yourself a CAD

Ferranti Electronics has launched what it claims is the world's first remote comof a powerful mini-computer, world's first remote com-puter aided design (CAD) system which will allow a user to design his own densely-packed micro-electronic circuit. expected to be assembled in Edinburgh and the software

developed in Manchester.

An Ipswich company

square metres: The systems will be sold to the European and American

☐ Dutch unemployment rose to a postwar record of 449,700 in December, 302,000 formed only four years ago yesterday announced its first order worth more than fim. W.E.M.S. Manufacturing is to build 220 generating sets for the Middle East. more than a year earlier, according to official figures yesterday. TODAY

☐ Brazil achieved a visible trade surplus of \$1,200m (£640m) in 1981, its first general meeting, Habitat—since 1977.

Car sales set to rise New car sales, thought to

be 2 per cent down last year on 1980, should more than on 1980, should more than recover this year, according to Mr Michael Lacey, director of Glass's Guide, the motor trade prices guide. Sales should recover by 50,000 vehicles to around 1.53 m, an increase of 3.5 per cent over the probable 1981 outcome.

Imports' market share may ease marginally to about 55 per cent from 55.7 per cent, Mr Lacey says in Credit, the Finance. House Association journal. He expects new car prices to rise by 13-14 per cent this year.

The Institution of Motor-cycling said yesterday that despite the additional 10 per cent sales tax, sales of motorcycles, scooters and mopeds reached 275,000 last year, the fourth best postwar year. Mopeds held up their sales compared with 1980,

a graphics display unit with a keyboard and all the accompanying electronics accommodated in only 10 US sanctions

against the Soviet Union for its interference in Poland will not affect the German gas pipe deal contracts, the Economics Minister Dr Otto Lambsdorff told a cabinet

meeting in Bonn yesterday.

Reporting on the cabinet session, the chief Government spokesman Mr Kurt Becker said that Dr Lambsdorff made it clear that no sub contracts with United States companies would be affected, although the United States companies acted as chief contractors.

Change gas tax plea

Taxes on North Sea gas must be changed if the gas is to be fully developed and chemical production sus-tained. Mr Robert Horton, managing director of BP Chemicals, said yesterday. If the present system of taxing offshore oil production were also applid to gas, it would be "a serious disincentive" to chemical production, Mr Horton told the Edinburgh branch of the British Institute of Manage-

He said legislation enabling companies to sell gas to other parts of their operations at stable prices for assessment of Petroleum Revenue Tax should be extended to outside companies.

We must not let the development of these resources grind to a halt because of a confused and potentially inhibiting tax system," Mr Horton said.

He said Britain needed a gas-gathering pipeline to replace the £2,700m scheme

abandoned last year; he did not expect alternative schemes to come into operation until the late 1980s or early 1990s. British Gas paid £130m to the Exchequer this month, bringing its total contributions to more than £500m during the financial year.

Il Japan's foreign ship orders fell 18 per cent to 5.3 million gross tons last year compared with 1980, the Japan Ship Exports Association said yesterday. December's foreign orders fell 67 per cent to 204,000 gross tons on the same month on 1980.

Martin the Newsagent plc...

RESULTS AT A GLANCE - in En	į
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	JU7.4	73.0
Profit before tax	3.8	3.2
Earnings per ordinary share	48.2p	42.8p
Net dividends per ordinary sha	re 10.5p	9.35p

- * record figures achieved with sales up 12% and pre-tax profits up 18%
- * final dividend increased by 12.3%
- * retail trading area is expected to increase by 35,000 sq.ft. in 1982
- * first ten weeks show sales up 12%.

Copies of the Annual Report and Annual Review Document are available from The Secretary, Martin the Newsagent plc, Martin House, Ashwells Road, Brentwood, Essex CM15 9SF.

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Ronson raises bid for Heron Motor

By Margareta Pagano Heron Corporation, Mr Gerald Ronson's petrol stations to real estate empire, yesterday came a step closer to taking its publicly quoted Heron Motor Group back into private control, by raising its offer for the shares it does not own to 34p a share.

a share.

Heron, in turn a subsidiary of Mr Ronson's Heron International, which now holds interests in natural resources and savings banks in the United States, is offering £4m for the outstanding 29.5 per cent stake held by private investors in HMG. Mr Ronson's first offer of 28p a share against net assets per share of 50p, was rejected just before Christmas. Commenting on the increased offer, Mr Ronson said: "County Bank, acting for the independent shareholders, managed to get more out of me than I intended." The terms of the scheme of arrangement have won support from County Bank, acting for support from County Bank, acting for the independent shareholders, managed to get more out of me than I intended." The arrangement have won support from County Bank and the independent directors and is expected to go

With the tidying up operation came news of changes in Heron's structure and management shuffles after the reorganizations, of the past year. Mr Harry Cressman, once chairman of BSG
International, who was
brought in as managing
director for 18 months to
steer the rationalization, has resigned, and will be replaced by Mr John Turner.

The new group, Heron Trading, will comprise HMG and Heron Suzuki, and the chairman will be Mr Peter Agg, who replaces Mr Ron-

Results from HMG, due any day now, are expected to show an improvement after last year's loss. HMG, he adds, will continue with BL dealerships, but hopes also to bring in new franchises. Mr Ronson says that after the consolidation, Heron Corporation, which employs 5,000 people in the UK, is now prepared to spend between £50m and £100m on buying a UK company with a likely to ask at an ICCO meeting on January 25 for the levy to be two or three cents a pound.

An increase may be neces-

Casino acquisitions lift Reo Stakis

Casinos and the growth in the off-sales drinks market have been responsible for a profits increase at Glasgow-based Reo Stakis Organisation, whose other main. have been responsible for a profits increase at Glasgow-based Reo Stakis Organis-ation, whose other main interest is hotels.

company plants this year with a new casino at the Rembrandt Rooms in South Kensington, London.

The pretax profit for the year to September was up from £3.9m to £4.6m. Sales were also up from £63m to £77.8m, with the biggest percentage increase coming from casinos where turnover rose from £7.7m to £13.5m.

Mr. Loughray said the drinks side had seen a move to off-sales and had held up well despite the pressures of the recession and the high

Banks may

Banco do Brasil, want to charge 14 per cent over the Loudon interbank offered

rate, with a one-year grace period for interest payments, for a four-year loan.

The money is needed by the ICCO's buffer-stock fund, which has been steadily buying to offset a projected

lend to

Mr John Loughray, manage the recession and the high ing director, said the increase was the result of the Scotland and the North of contribution from the five England where most of the casinos bought from Lad-company's activities are broke's last year for £4.4m. located. Wines and spirits

sales rose from £26m to £32m. An increased dividend of 1.64p gross has been declared. This makes a total dividend for the year of 2.28p gross compared with 2p gross

Asset leasing also grew substantially in the year from £355,000 to £1.07m. Income from leasing has been set off against other

rest costs. The company says it expects to see improvements in 1982. Profits in the first quarter are ahead of last year, partly as a result of improvements in hotel bookings in the autumn.

Deadline nears for North Kalgurli bid

British shareholders who together hold up to 40 per cent of North Kalgurli Mines, the Australian gold mining company, for which Metals Exploration, another Australian gold mining company, is making a partial bid, have only until Monday to decide whether to accept the Metalsex offer, which is being strongly opposed by the North Kalgurli board.

Metalsex is offering A\$1.50 (89p) a share for each fullypaid share, to raise its stake Brazilian banks are prepared to lend the International Cocoa Organisation between \$70m (£37m) and \$120m (£64m) to support the world cocoa price. The move is unprecedented in the history of the ICCO and an unusual instance of primary producers helping each other.

But the loan will be on commercial terms, Market sources believe that the three banks, led by the state-owned Banco do Brasil, want to paid share, to raise its stake from 20 per cent to 35 per cent. But Mr Ken Fletcher, the Metalsex managing director, admits that his

company cannot afford to pay more.
Despite the offer, North
Kalgurli shares stood at 112 Market sources expect that without the bid the price would be between 75 and 90 cents. Both sides to the

will fall once the offer is completed.

Metalsex has charged that the North Kalgurli board has been slow to develop the potential of its Fimiston gold mine along Kalgoorlie's famous Golden Mile. Mr Fletcher also claims that North Kalgurli has spent money — for example on its indirect stake in the Honeymoon uranium project — which would have been better deployed at Fimiston.

which would have been better deployed at Fimiston.

But in the rejection document sent to shareholders on Tuesday, North Kalgurli argues that the shortage of skilled manpower has prevented if from reaching milling capacity of 350,000 tonnes of ore a year. Mr Fletcher expects mill Fletcher expects mill throughput in the current financial year to be 100,000

Mothercare holders opt for Conran cash offer

By Philip Robinson

Mothercare shareholders Mothercare shareholders have apparently been rushing to take the cash offered by Mr Terence Couran's Habitat group in its £117m reverse takeover of the mother and baby clothes chain rather than accept his shares.

If all those who had applied for cash were paid in full, Habitat would have had to find £64.4m instead of the £40.2m it originally offered. find 164.4m instead of the £40.2m it originally offered. Instead, its merchant bank advisers, Morgan Grenfell, are scaling down the number of shares eligible under the limited cash offer. Originally, Morgan said that it would be prepared to pay 125p free of all expenses for a limited 32.2m shares. Applications for cash came in for 51.5m

Now, instead of those applying for cash getting half what they requested, they will get 22.3 per cent of their entitlement. Mr Conran is to ask his

shareholders for formal approval for the Mothercare deal today.

deal today.

Firm opposition is unlikely, although the company expects questions from small shareholders who have seen the value of their Habitat shares fall from 140p to 105p since the bid was announced.
The meeting is the last hurdle for Mr Conran's plan for a major retailing group.
He already controls it with acceptances for his offer being taken by holders of 86 per cent of Mothercare shares. With those in hand, Habitat now controls 89 per cent of the equity.

The figures include those large institutional holders

large institutional holders whose acceptance followed a meeting with Mr Conran at which he is believed to have explained the future structure of the enlarged group in



Mr and Mrs Robert Baird working on their new executive search magazine.

Keeping headhunters in touch

post of financial controller only a year before, the news came as a considerable blow. When he had picked himself up he went out to contact all the executive search organi-zations he could find, first in the United States and later in the United Kingdom.

As a result of that exercise he and his wife set up in business for themselves, as publishers. Their second publishing venture — a magazine for the executive search industry, which car-ries details of more than 50 jobs at salaries of £15,000 a year or more in its first issue — will be launched next

What Mr Baird discovered, 1,000 co when he went to see the second headhunters, was that this is shortly.

New Year

Mr Robert Baird was on a very solitary occupation. holiday in California when he heard that the company for which he worked had been put into liquidation. Since he had been headhunted to the had been headhunted to the had been headhunted to the had been financial controller than In America it was at some difficulty in identifying them. In America it was at least possible to obtain a directory of executive search consultants. In Britain, no such publication existed.

> So the Bairds set out to So the Bairds set out to compile one, supporting themselves out of what redundancy money there was, and Mrs Baird's earnings from some part-time lecturing. The result was the Executive Grapevine, a directory listing the names, addresses, affiliations and specialities of some 170 executive search organizations in the UK. The first edition, which was published edition, which was published in November 1980, has sold 1,000 copies at £25 a time; a second edition is due out

In the course of the research for this operation it became obvious to the Bairds that headhunters had strong and divergent views on the conduct and the future of their profession, and could do with a forum for expressing them.

It also became obvious that, although they rarely advertise in the national press and might not be prepared to do so openly even in a specialist publi-cation — after all, the essence of headhunting lies in the fact that the headhunter should know exactly where to look — some executive search organizations might be glad of the opportunity to publicize their more difficult or testing assignments.

The publication which they plan to launch next week — which will probably be issued ten times a year.

An increase may be neces-sary if the ICCO is to meet through a syndicated un-secured loan, and in Decem-ber secured a further \$50m. loan.

London Shop merger with

Beaumont gets go-ahead

Shareholders in London ing to consider the merger Shop Property Trust have with Beaumont. given their approval to the proposed merger with the group's sister company, Beaumont Properties, despite strong opposition from a number of shareholders.

These included Mr Godfrey Bradman, chairman of the bad conceded that they

group, holding 21.4 per cent. that price.

its acceptance and not proceeding with yesterday's business in this respect.

number of shareholders. of 135p per share, the These included Mr Godfrey directors of London Shop Bradman, chairman of the had conceded that they former tea plantation group would be unable to place. Rosehaugh, which is the Rosehaugh's entire 21.4 per largest shareholder in the cent stake in the market at

London Shop recommending to obtain any assurance that

Wall St

New York, Jan 13. — Stocks, paced by blue-chip issues, were heading higher early today in a rebound from severe setbacks thus far in 1982. Trading was

Rosehaugh has attempted to takeover London Shop, but its latest offer, worth 150p per London Shop share, was group's financial advisers, dependent on the board of said that it had not been able Rosehaugh wanted to do

852.55 around 11 am. The early improvement was not wide-spread, however. Advances held a slim 562-404 lead over declines among the 1,396 issues crossing

turnover 10,920,000 shares was down from the 14,140,000 traded during the same period on Tuesday.

New York, Jan 12. — The stock market closed lower for the second straight day amid concern shout the outlook for interest.

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Stock markets

Rumours help shiping sector

buying to offset a projected surplus of production over demand, The buffer stock had about \$175m, enough to buy some 90,000 tonnes. The size of the Brazilian loan may depend on the willingness of the ICCO is increase the levy it charges on cocoa producers.

The present levy of one cent a pound is expected to raise \$13.2m during the 1981-82 season. The banks are likely to ask at an ICCO Shares of Ocean Transport & Trading leapt 9p to 117p after hours last night, amid rumours that it was about to sell its 58 per cent stake in the Straits Steamship Co (Singapore).

Meanwhile P&OD rose 6p to 139p amid continuing rumours of a possible Far

Eastern bid.
Elsewhere, bid situations continued to dominate interest in a market where the first objective was to beat the national train drivers' strike. Nevertheless, attendance was reported as near normal and even turnover was able to register a slight increase. Despite the possibility of a miners' strike adding to the present situation, the FT

Index was undeterred, clos-ing 2.7 up at 527.3. Interest in gilts remained at a low ebb, although the thin conditions produced rises of up to £% across the

board. RTZ continued to make good progress in its bid for Thos W Ward which remained unchanged at 231p. Brokers Hoare Govett were reported to have picked up between 2m and 3m extra shares yesterday, taking RTZ's stake to almost 38 per cent of the equity, including 3.14 per cent acceptances already received.

already received.

However, Mr Peter Frost, chairman of Ward, still regards the bid as inadequate and will be writing to shareholders shortly to tell them why he thinks they should reject the bid.
In chemicals, the doubled profits from Allied Colloids

Allied Colloids (f)
Boulton & Paul (f)
Centreway Ltd (f)
Centreway Trust (f)
Cosalt (F)
Gresham Inv. (f)
Industrial Precision
M & G Dual Tst. (F)
Racal (f)

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Commodities

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Standard cash. £8,020-40 a tonne; three months. £8,020-8,110. Sales. 880 tonnes. High grade. rash £8,620-40; three months. £8,090-8,110. Sales. nit tonnes. Morning. —
Standard cash. £2,580-8,600; three months. £2,580-8,600; three months. £2,580-8,600; three months. £2,580-8,600; three months. £3,070-75. Settlement. £8,600. Sales. 71 tonnes. High granths. £8,070-75. Settlement. £8,600. Sales. 71 tonnes. Singapore lin ex-works. \$M35-30 a picul.

LEAD was algadier — Afternoon. — Cash. £322.24 per ionne: Ihree months. £255-5.50. Sales. 2.175-15.50. Here months. £237-27.50. Intermediate £315-50. Sales. 4.500 ionnes.

PLATINUM Was at £195.20-\$365.50} a troy dunce

Silver was quietly steader. —
Bullion marries (fixing lovels) — Spot
421.80p per frey ounce (Units States
cents equivalent, 792.10; the months 457.30p (819.10c); atc
months 457.30p (819.10c); atc
months 458.20p (850c); one year
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Exchange — A(ternoon, — Cash 42520p; three months 440.5-41.0p Sates
14 lots of 10.000 frey ounces each;
14 lots of 10.000 frey ounces each;
14 lots of 10.000 frey ounces each;

Racal (I) Reo Stakis (F)

came as a pleasent suprise and added 13p to the price at 155p. Hestair was also a bright market afer directors attended a lunch in the City

attended a lunch in the City on Wednesday in a confident mood which was reflected in the share price, 6p dearer at 37p. Another bright spot was Coates Bros, 5p up at 59p Improved figures also added 2p to Reo Stakis at 52p and 6p to Cosalt at 37p.

Berwick Timpo continued its recent recovery, rising 3p-

its recent recovery, rising 3p-to 39p supported by the news that Mr Swraj Paul's Caparo Investments had taken a 5.8 per cent stake. Only last week Jove Investment Trust bought 8 per cent of the shares despite news of a possible loss. expected

The recent revival in the chemical industry has taken Fisons by surprise, but the group has made efforts to group has made efforts to catch up in recent days, Yesterday, the price closed 9p up at 160p, making a 12p rise so far this week. This has led to renewed speculation of a possible bid from the German recount Report which her has been recovered. group Bayer, which has been backed by shrewd buying from the Continent

Huntley & Palmer was wanted, climbing 4p to 93p after the news that Sir Hector Laing had resigned from Allied-Lyons over a conflict of interests resulting from Allied's drive into the food market. Allied have for some time been tipped to bid for Huntley and last month bought just under 5 per cent of the shares.

Latest results

Dividends in this table are shown net of tax on pence per share. Elsewhere in Business News dividends are shown on a gross basis. To establish gross multiply the net dividend by 1.428. Profits are shown pretax and earnings are net. a-Loss. b-Adjusted.

0.87(0.68) 0.25(0.39) 1.73(1.5)

27a(19.8a)

-(-) -(-) 3.93(4.97)

6.45(5.5)

In stores, Habitat slumped 3p to 105p, after its bid for Mothercare, unchanged at 158p, went unconditional upon receiving 89 per cent of the shares and clearance from the Monopolies Com-

mission.

Wolverkumpton Laundry
hardened 2p to 55p as Mr
Owen Oyston bought a further
142,000 shares, or 10.97 per
cent, taking his tally to 29.92

per cent, taking his tally to 29.92 per cent.

The electrical sector appeared disappointed with the half-time news from Racal Electronics, with profits at the upper end of expectations. The shares rose 2p to 423p and the market expects the group to breach the £100m mark for the year. But Thorn EMI, reporting But Thorn EMI, reporting today, slipped 5p to 433p. ing a possible £40m rights issue, but believe the share

price suggests pretax profits well below par.

Traditional options saw Traditional options saw calls in FNFC on 36p, NCC on 12p and Royal Bank of Scotland on 18½p. Puts were arranged in FNFC at 3p and Royal Bank of Scotland at 16p and a double was completed in Lofs at 9½p.

3/3 13/2

2/3 15/2 14/4

Other Miling Feed BARLEY WHEAT BARLEY WHEAT BARLEY EMBES 2107.00 2105.00 N Easi 2107.00 2105.00 Sectional 2105.00 Sectin

EAT COMMISSION: Averagee fai-ck prices at representative markets Jan 15: GB Cattle 108 14p per kg (+7.10): UK Sheep 202.97p per kg (cw (+1379): GB Pigs 80.00p per

Geo Bassett sale

Geo. Bassett Holdings, the iquorice All-Sorts makers,

has sold A. A. Hales, the hobby kits and toy distributor, for £1.2m. The deal, part of Bassetr's policy of shedding non-confectionery inter-

2.36(3.5)

2.30(3.5) 1(0.95) 1.86(—) 12.1(9.8) 1.2(1.1) 1.1(1)

-(2.73) -(-) -(5)

-(-) 21.1(18.3)

1.6(1.4)

ratings battle ends in draw By Elkan Allan

Some 11 million people saw in the New Year with the help of television, according to the audience figures issued by the Broadcasters' Audience Research Board yesterday. About half chose BBC 1 and half ITV, although there was an appreciative switch from ITV's Hogmanay Show to the BBC's Across the Years at the stroke of midnight. Just under a mil-lion watched BBC 2's Pick of

however, oday, slipped 5p to 433p.

Dealers are now discounting a possible £40m rights issue, but believe the share

January 3, when its integr of ringeration and air-controllogous in ground in g tract a relative handful of 6.73m against *Give us a Clue's* 14.34m and a half-Equity turnover on Janua-12 was £107.287m (12,301 making it the week's second

bargains). Active stocks yesterday, according to the Exchange Telegraph, were Allied Colloids, Royal Bank of Scotland, P & O D'fd, Racal, Comm Union, Sun Alliance, Phoenix, Eagle Star, Unitech, Barget, Rand Mines, Ransome Hoffman, ICI, Lofs, and Ultramar.

making it the week's second most popular programme after Wednesday's Coronation Street — and London Night Out with 14.78m.

Movies did poorly elswhere in the week as well. The much-boosted Close Encounters of the Third Kind was watched by fewer than 15m viewers,

viewers,
'But perhaps the most upsetting success of the week for BBC was Barbara Woodhouse in America in which their discovery was transported by ITV to California and scored the enormous rating — for a documentary — of 13.19m viewers making it the eleventh most popular programme of the week.

Caravan side boosts Cosalt's figures

cosalt, the Grimsby-based ships' chandlery and caravan maker, managed to push pretax profits to £580,000 in the eight-month period to August, compared with £289,000 in the last full year.

Much of the increase came from the caravan division, where the completion of a where the completion of a contract by Cosalt Adda Systems for earthquake relief in Algeria last year accounted for £4.8m out of the total £7.3m of exports.

Profits from caravans, which have lost most traditional export markets, were £769,000 against £714,000. The ships' chandlery division showed a downturn to profits Earlier, however, ITV showed a downturn to profits staged its most spectacular of £236,000, against £719,000, coup of the week ending in the period and the re-January 3, when its lineup of frigeration and air-condition.

Birmid Qualcast

Birmid Qualest (Foundries) has taken a controlling interest in Alkast (North Devon), the Barnstaple-based precision light-alloy casting foundry, for an undisclosed

Birmid Qualcast is one of the largest manufactures of light-alloy castings in Europe and a market leader in precision casting. It sees
Alkast as a natural addition
to the group's West Midland
foundries, satisfying the
market for small-to-medium

quantity orders. Italstat boost

Italstat International, the Luxembourg-based holding company, controlled by Italstat (the IRI holding for

Cosait, the Grimsby-based creased its capital stock from

\$10m to \$25m (£13m).
The increase of the total assets of Italstat, founded in 1979, aims at boosting the means of the company both to take a better account of the credit and interest given by the international banking system to the IRI-Italstat concerns, Italy's most important group of civil contractors and consulting engineers, and to comply with Luxembourg rules. Jenks-Elliott

With its offer for the Elliott Group of Peter-borough now closed, Jenks and Cattell has now received acceptances from the holders of 12.53m Elliott ordinary shares, which is about 95 per cent. Jenks's total holding of Elliott's ordinaries is about 95.78 per cent.

Allied Colloids

Allied Colloids' sales for the half-year to Oct. 2 last rose by 39 per cent to £27.35m, compared with last year, with pretax profits more than doubling to £4.02m, against £1.98m. In fact, the latest profit almost equals the £4.04m pretax profit for the whole of the year to March 28, 1981.

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Cement-Roadstone

Cement-Roadstone Holdings, Ireland's biggest indus-trial company with expanding interests overseas, reports that its United States subsidiaries, Amoor Inc and Concrete Conduit, recently signed a contract with the United States Mountain United States Mountain States Telephone and Telegraph Company (a Bell Tele-phone subsidiary) worth the construction and civil phone subsidiary) word engineering sector), has in-almost \$10m (about £5.3m).

Business appointments

Federated Land chairman named

Mr Arthur C. Richards has been made a non-executive director and has been elected chairman of Federated Land. He director and has been elected chairman of Federated Land. He is chief executive of United Dominions Trust, a director of Trustee Savings Banks (Holdings) and a non-executive director of Blackwood Hodge. Mr James H. P. Meyer has resigned as chairman and will cease to be a director on January 31, in order to pursue his private hatiness interests abroad. Mr Cyril N. Smellie, who retired last April, as the senior partner of Moore, Stephens & Co, the company's auditors, has joined the board as a non-executive director. Mr Peter J. H. Meyer, has resumed executive responsibilities, which he relimquished last May, and has been appointed managing director. Mr Trevor Slater, an executive director, has been appointed deputy managing director.

Mr G. W. Searle, chairman of London & Scottish Marine Oil (Lasmo), has become chairman of the Association of British Independent Oil Exploration Companies (Brindex). Mr J. T. Leonard,

the Association of British Inde-pendent Oil Exploration Compa-nies (Brindex). Mr J. T. Leonard, chairman of Carless, Capel & Leonard, has been appointed vice-chairman. Mr Jonathan Sieff has been appointed chairman of the Cooper Group.

Mr Jonathan Sieff has been appointed chairman of the Cooper Group.

Mr A. D. Angel has been named as chairman of Merck Sharp & Dohme; he was formerly managing director.

Mr John Collier has been appointed director of industrial relations for News International Mr Bill Gillespie has been appointed deputy managing director of Times Newspapers. Both appointments will become effective from January 25.

mr Michael Coates, at present UK senior partner, becomes chairman of Price Waterhouse Worldwide on July 1. His place in the UK will be taken by Mr Jeffrey Bowman on the same date.

Mr Geoffrey W. Cross has been appointed financial director of London and Liverpool Trust.

Mr Dennis Drew has been appointed deputy chairman of INCPEN (the Industry Committee for Packaging and the Environment), in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee for Packaging and the Environment), in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee for Packaging and the Environment), in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee for Packaging and the Environment), in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee for Packaging and the Environment), in succession to Mr Donald Raine. Mr Drew has just of the Industry Committee for Packaging and the Environment, in succession to Mr Donald Raine. Mr Drew has just of the Industry Committee for Packaging and the Environment, in succession to Mr Donald Raine. Mr Drew has just of the Industry Committee for Packaging and the Environment, in succession to Mr Donald Raine. Mr Drew has just of the Industry Committee for Packaging and the Environment, in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee for Packaging and the Environment, in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee) in succession to Mr Donald Raine. Mr Drew has been appointed deputy chairman of INCPEN (the Industry Committee) in succession to Mr Donald Raine. Mr Drew has been appointed for Packaging and the Environment, in succession to Mr Donald Raine. Mr Drew has been appointed for Packaging and the Environment, in succession to Mr Donald Raine.

July 1. His place in the UK will be taken by Mr Jeffrey Bowman on the same date.

Mr Geoffrey W. Cross has been appointed financial director of London and Liverpool Trust.

Mr Eric Meldrum has been made chairman of Barton Conduits, Walsall. Mr John Moore has been appointed chairman of both Barton Abrasives, Wolverhampton, and Barton Aluminium Foundries, Birmingham. Both Mr Meldrum and Mr Moore are directors of Barton Group and their appointments follow the retirement of Mr Graham Sheldon from the group board.

Mr Derek W. Allen, assistant general manager (investments) with Guardian Royal Exchange Assurance, has become deputy general manager. Mr David F. Assurance, has become deputy general manager. Mr David F. Cooper, a senior investment manager, is to be an assistant general manager in GRE's investment and finance division and Mr John M. R. Evans will be an assistant general manager.

and Mr John M. R. Evans will be an assistant general manager on the managing director's staff.

Mr Michael H. Marx has been appointed financial director of Heron Corporation. Mr Alan I. Goldman who has been financial director since 1974, will now be assuming wider responsibilities particultly directed to the expansion of the group's interests in the UK and overseas. Mr Goldman remains a director of Heron Corporation and financial director of Heron International, the group's holding company.

Mr Thomas M. Sands is to be the managing director of Elizabeth Arden, UK.

Mr W. Ford has been appointed a director of Brown & Tawse. Mr E. Hartley has been made a director of Brown & Tawse Tubes

Mr Nigel Keen has been appointed an executive director of European Banking Company. Mr Keen joined the bank as its chief accountant in 1974 and was made an assistant director in

company secretary of Oil and Associated Investment Trust. Mr K. W. Cunningham has resigned from the board and also resigned as company secretary. Mr Julian Traves, technical mangager of Carrs Paints, is to be the chairman of the newly-formed External Wall Insulation Association.

Mr A. P. N. Lafont has been made a discount of Morgan

Mr A. P. N. Lafont has been made a director of Morgan Grenfell International. Mr G. W. Mur and Mr A. M. Whealey become senior assistant directors of Morgan Grenfell & Co and Messrs P. Curry, M. J. Hodges, R. M. Maslinski, A. V. P. Sitt and A. J. P. Sykes become assistant directors of Morgan Grenfell & Co.

Mr John Walker, has been

Mr John Walker has been appointed a director of Leopold Walford Holdings. He was previously managing director of Leopold Walford (Zambia).

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BY THE FINANCIAL EDITOR

Building societies used as banks

Building societies had a rough time in President Reagan's hard-line stance.

1981 with net receipts falling by £342m There are clearly great differences to £3,474m — the first drop since 1978, which followed a record year in 1977. Clearly the competition from National Savings and the banks is beginning to bite but there is little evidence of any agreement between the societies on what form retaliation should take — it

And although the societies cheerfully reported lending at record levels, the figures overall should be ringing alarm bells among the board roon decision-

Gross receipts for 1981 at £26,441 million were the highest yet, a rise of 19 per cent on the previous year's total of £22,183 million. Withdrawals, however, increased even faster, up 25 per cent at £22,967 million, precipitating the drop of nearly £350 million in net receipts.

This tendency of building society investors to use their accounts increasingly like a bank account has worrying

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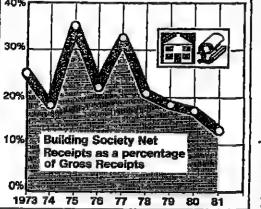
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Net receipts as a percentage of the industry's gross receiptshave been declining rapidly since 1977 when they hit nearly 33 per cent. Since then they have slid alarmingly to the 1981 figure of only 13 per cent.

This faster turnover of depositors' funds inevitably pushes up the societies' expenses, and margins at some societies must be dangerously



low. If the average percentage of net receipts to gross receipts is only 13 per cent, some societies must, by definition, be turning over their deposits faster than the average and have an even lower percentage of retained deposits.

One answer for the societies is to follow Nationwide's lead and venture into the local authority bond markets for wholesale money. Nationwide believes the cost of the £30 million it raised last year through its negotiable bond issue was somewhere between the cost of ordinary account money and term shares.

Since most societies are having to pay at least one per cent over the recommended ordinary share rate of 9.75 per cent on some 70 per cent of new deposits, wholesale money looks relatively cheap.

However, even Nationwide seems reluctant to pursue this route. It has been restricted to raising only £5m a month through the local authority market, and its new chief general manager, Cyril English, is not as keen as his predecessor, Leonard Williams, on raising money in this way.

He appears to have turned his back on other money market options on the grounds that the society would be raising money from its competitors, the banks. It is doubtful whether the banks will suffer the same squeamishness when it comes to persuading erstwhile building society customers, now locked into a bank home loan, to part with their savings.

Polish debt

Divisive tactics

The military Government in Poland has been attempting to drive a wedge between the European and American banks who are owed some \$17,000m. Since Christmas, the Poles have been repaying perhaps \$200m of the \$500m in interest due for 1981, to British, West German and other European banks. But the United States banks, it appears, have not been paid a penny because of

There are clearly great differences of opinion between United States and European banks on the thorny question of signing an agreement to reshedule the \$2.4 billion debt for 1981. These disagreements largely reflect governmental differences.

But the Poles might be backing a loser by trying to split the banks. First, most of the loans have a clause inserted which does not permit favoured treatment for certain banks. So the American banks can exert pressure on their European partners by invoking this.
Second, syndicated loans are led by

an agent bank which in some cases are British. Any repayment of interest to a British or German bank must be shared out pro rata, so any United States banks in that syndicate will receive its share.

Turning Decca to account

It has not taken long for Racal to dispel fears that it would be a slow process putting Decca's house in order. Thanks in part to loss elimination (the sale of the colour television business in particular) and strong growth on the capital good side, Decca's contribution to pre-tax profits in the first half was £5.27m against losses of £5.21m last

Marine radar's losses have been reduced from £6.6m for the whole of the previous year to just over £2m and with further rationalization across the business still to come. Decca should be contributing upwards of £12m for the year, with volume on the capital goods side likely to be up by a half for the

Within the 45 per cent jump in pre-tax profits to a record £38.4m, the only division blotting the copybook remains data communications where the overreaction to increased competition has knocked margins well below their historic 26 per cent level, leading to what Racal — in its usual tacitum manner — calls a "substantial" hole in profits. Corrective action has been taken which should lead to a modest second-half improvement.

Hidden reserves.

Lords' committee favours disclosure

The case against banks keeping hidden reserves has been greatly strengthened by the House of Lords' committee's examination of the proposed EEC directive on banks' accounts. The directive as it stood would have allowed all-banks to keep a form of undisclosed reserve through the writing-down of 5 per cent.

For full-disclosure banks which took advantage of this, it would of course have been a huge step back- that is what the Chancellor wards, though for those most secret of risks doing as he prepares all, Schedule 8 banks; such as the accepting houses, the directive would has half moved towards all, Schedule 8 banks; such as the accepting houses, the directive would have been a small advance in disclosure

As it is the Lords committee has come down firmly against banks being allowed to keep hidden reserves at all. The committee was unconvinced at the old argument adduced by the banks that depositors' confidence might suf-fer in some circumstances were the true position on capital and reserves known. The Jenkins Committee in 1962 accepted this on the basis that the risk of a loss of confidence, however small, outweighed the advantages of disclosure. But the Lords committee feels that enough has changed in the last 20 years to swing the balance.

It is understandable that the users of accounts should want the Schedule 8 banks to move to full disclosure and there are few surprises among those who gave evidence against hidden reserves to the committee. But what makes the committee's recommendations so credible is that the committee itself comprises several eminent bankers including a former govenor, former deputy-govenor and an adviser to the Bank of England.

Trade relations between major industrial nations will be discussed in Florida this week

Is it too late to halt the slide to protectionism?

Economic relations between the United States, the European Community and Japan are worse today than at any time since the war. The three-cornered partnership which has been the mainstay of the interpolations of the interpolations. of the international open trade system for 30 years is

under severe strain.

While much of the world faces its third year of recession and lengthening dole queues, the Japanese export machine grinds on, pouring out cars, cameras, cassette ders, numerically-controlled machine tools and much more. Like the sorcerer's apprentice, the Japanese apprentice, the Japanese Government looks on help-lessly, unable to stop what it has started. And Japan's trade surpluses with the West

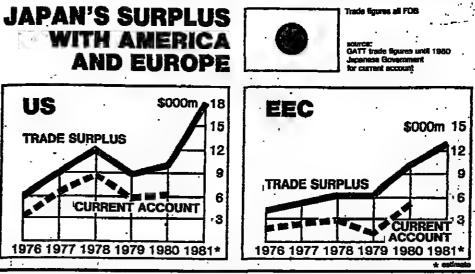
Nobody expects that the meeting tomorrow and on Saturday at Key Biscayne, Florida, between top trade representatives of the US, the EEC and Japan, will produce an instant solution to these problems. But neither can there be much ation is brought under con-trol soon, the dangers of sliding back into protec-

Indeed, the only question that the pessimists are debating is whether America or the EEC will be first to impose formal quotas on imports from Japan. If one of the two big Western powers were to take such action, the other would quickly follow.

tionism are high.

Some trade officials believe that the crunch could come this spring as the recession in the United States takes its toll. In some areas of trade most notably cars - Japanese exports to America and the Community are already subject to "voluntary" restraint agreements, Formal quotas on imports from Japan would represent a significant escalation of trade

per cent of American imports from Japan are subject to some type of voluntary greement or other kinds of informal understanding to check their growth. The United States Congress is preparing a new set of certain to continue whatever proposals giving the White House unprecedented auth—



ority to impose quotas on imports, retaliate against countries which restrict their imports of American products, and set new countervailing duties to protect American companies from what is deemed to be unfair foreign competition.

Mr David MacDonald, deputy United States trade representative recently described his country's trade

scribed his country's trade relations with Japan as having reached a dangerous point. For the EEC, Mr Wilhelm Haferkamp, the Brussels Commissioner for External Relations, has warned that the Community has reached the limits of tolerance' on the deficit with

Some estimates suggest that Japan's surplus with the United States last year was close to \$18,000m, compared with \$10,000m in 1980; and it is likely to rise further this

The surplus with the EEC last year is thought to have been somewhere between \$13,000m and \$14,000m, compared with \$10,000m in 1980.

Some estimates suggest These figures are offset to that already as much as 70 some extent by Japan's per cent of American imports shortfall with the West on its

There has been some reluc-tance to attend a meeting such as that planned in Florida for fear that the West would gang up on Japan. Two previous meetings of this kind have been arranged, but Japanese officials have declined to attend at the last moment. The idea for such a meeting was put forward at last summer's Ottawa economic summit between the big industrial nations.

The discussions are in-

tended to be informal. Japan has only agreed to attend on the strict understanding that the problems are discussed at a general level and exclude any consideration of specific

omic Cooperation and Development recently predicted that Japan's surplus with the rest of the world would rise by nearly two-thirds this year, to a massive \$35,000m r (on a balance of payments basis).

Iapanese Government of the world would rise be mr William Brock, the American delegation will talks, they will very provide the Ameri omic Affairs; and Mr Lionel Olmer, Under Secretary of Commerce, who heads the United States International Trade Administration.

The concern of Japanese officials that they will find themselves isolated is probably misplaced. While the problem of Japan's surpluses is viewed as very grave, there are also increasingly serious

questions to be answered about America's trade reout by American companies against European steel exporters have served to under-score the difficulties now developing in Transatlantic

that the Reagan Adminis-tration views these latter difficulties even more seriously than those with Japan. Robert Hormats warany consideration of specific bilateral difficulties. The meeting was originally billed as a trilateral one, but has been widened to include Canada.

Japan will be represented page 1. Japan and the Community were permitted to fester they would spill over to other areas of their relationship. by Mr Shintaro Abe, Minister Restrictions on trade were of International Trade and inviting retaliation, thrust, Industry, and the EEC by Mr and counter-thrust. This

There are many indications

could have poisonous effects on international politics, on orderly co-operative relations among the major nations, and on American-European military security, he said.

The degree of concern felt

by the Reagan Adminis-tration was illustrated last month when a posse of Cabinet Ministers headed by

Cabmet Ministers headed by Secretary of State, Mr Alexander Haig, descended on the Berlaymont for discussions with Brussels Commission President Gaston Thorn and other top Community officials, America is amious that the filing of the suits against European steel makers should not sour the talks at Florida, and that this issue should not be linked to others. Its chief goal at the talks appears to be to persuade its partners of the dangers.

dangers.

While it is not the intention that specific bilateral issues should be tackled at the main talks, they will very probably be discussed on the sidelines. Agriculture and export Credit

the source of many of their difficulties is structural. Japan has offered to make further cuts in import tariffs structural. Japan has offered to make further cuts in import tariffs and is stockpil-ing oil and other raw materials to cut its surplus.

It is likely to promise further steps to liberalize domestic markets. In addition, lations with both the Community and Canada. The anti-dumping lawsuits being taken at Florida that it is willing to provide technological and monetary assistance to help revitalize the West's flagging

industries.

But Japanese officils in the Ministry of Trade and Industry admit that htese measures will do little to reduce the surplus, "We are making the concessions because these are demanded of us by Europe ad the United States", a senior MITI official admits. It is difficult to see how

the Florida talks can do anything about that. Reporters: Bailey Morris (Washington), Peter Norman (Brussels), Peter Hazelhurst

the Government's case. One

is if interest rates fall sharply in the United States. In those

circumstances the British Government might find itself

forced to keep interest rates high.

The second is if an expan-

sionary Budget started to get

the economy moving so quickly that the balance of payments moved into deficit,

provoking a run on the

Where does the balance of risks lie? If interest rates do

fall in America and ours have

to stay high for domestic

reasons we will still have had

our expansionary Budget; whereas if the Budget is tough and American interest

rates stay high we will have tight fiscal policy and high

and cut taxes this Spring.

Economic notebook

Avoiding the interest rate trap

Nothing is more dangerous in this world than to travel using out of date maps. Yet

giving the exchange rate a key role in determining interest rates. Yet at the same time he is insisting on the domestic goal of cutting back public borrowing as a way of bringing interest rates down.

Even the most ardent supporters of the need to cut Budget deficits long ago laid off the suggestion that the straight into increasing the money supply. Only that part of it which cannot be This belief that a low borrowing requirement is the source of low interest rates

at home is, in any case, of only limited validity, even if the Government is solely concerned with domestic money supply. It loses all credability once the exchange rate becomes a target of government policy. So if the Chancellor promises that a tough Budget opens the way to lower interest rates he will be making a promise he cannot deliver, just as he could not deliver on the same promise last year. If the exchange rate is allowed to float, the Government uses interest rates to

try to control the money supply. The total growth in the amount of money in those circumstances is made

up of two things. These are gilts). That leaves a cut in the the extra money which has to deficit as the only option be printed to finance the which does not push up Government's deficit and the interest rates. extra money printed by the banks to lend to their private

money supply. Only that part of it which cannot be financed by selling Govern-ment long-dated stocks is actually an addition to the

money supply.

In many periods over the past decade, the Government has actually sold more debt in this way than it has needed to borrow to cover its deficit. When this overfunding ccurs, the Government's occurs, the Government's contribution to the money

supply is actually negative.
It is a simple matter of arithmetic that if the Government wants to reduce bor-rowing from the banks it can either cut its deficit or long periods actu-finance it by selling more monetary growth.

interest which it pays (unless But in the it uses unconvential instru-

One obvious flaw in this, as

has become very apparent over the past two years, is that the private sector's borrowing is sharply affected by what the public sector does.
If companies have to pay

for their electricity they are likely to borrow more from the bank to do so. Thus measures aimed at cutting the public deficit to help hold down the money supply fail to have the desired effect. There is less public borrow-ing but more private borrowing.
The same kind of practical

problems occur when the Government raises interest rates. Companies faced with higher interest rate charges just add them on to what increases in interest rates designed to cut the growth of the money supply can for long periods actually boost

iong-dated stock:

The only way it can sell problems involved in trying more stock is to raise the interest which it pays (unless But in the world where only considerations ments, like index-linked apply they leave the Govern-

money supply target, a lower government deficit means that interest rates are lower than they otherwise would have been. That does not mean that they are low; the

attempt to meet the money supply target in late 1980 pushed British interest rates well above world ievels. Nor does it mean that the relative reduction in interest rates is worth the price.

able academic argument for linking interest rates and public borrowing. But once the exchange rate is intro-duced as a target, the whole structure goes out of the window. Because Britain has no exchange controls, any government wanting to keep

the exchange rate stable has abandoned domestic control of its interest rates. interest rates rise in New York money will flow there and the pound will fall against the dollar. The only way to stop that happening is to raise interest rates in

That is just what the authorities did last Autumn and that is what they would be forced to do again. So when advocates of a tough Budget say that industry would prefer a lower borrowing requirement and lower interest rates they have failed to adjust to the new world.

If interest rates are high

on Wall Street, and there are few who are bullish over the year ahead, they will have to be high here too. In that case the economy would have been hit by a tough Budget motorists having their cars and would get no lower a constituent of Heddle's There are only two events bought in good faith £2,750, which could give validity to worth of secondhand Ford

interest rates. Surely, as long as there is serious doubt, we ought to go for the policy which gives more assurance of recovery

David Blake

Base. Lending

Rates

ABN Bank 141/2% Barclays 141/2% Consolidated Crds. 141/4% C. Hoare & Co *141/2% Lloyds Bank 14 4% Midland Bank 141/2% Nat Westminster 141/2% TSB 141/2% Williams & Glyn's 141/2%

* 7 day deposit on sums of £10,000 and under 12',46, up to £50,000 15% over £50,000 15',46.

Business Diary: Marking time

The pitch by Greater London Council; supported by the Department of Trade, to get the proposed European Community trade marks office sited in London where the National registry already operates - is due out today. But London is still not having it all its own way. Despite the Trade Depart-

ment's so far opting for the capital, Manchester is still in there fighting, according to Paul Saulter, chief executive of the Manchester Chamber of Commerce and Industry. Says Saulter: "Manchester is completely accessible, with a handy international airport. It would be cheaper to set up the office in the city which had several central sites that could be used." Like London,



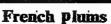
An old Manchester cotton piece goods trademark.



jobs the new office would pense create — at least 500, Saulter week.

London because it thinks the crats have been asked to nations. consider. In Britain, Bristol A Communist trade union-and Newcastle-upon-Tyne ist, Georges Valbon is tipped of Saint Gobain is most have been mentioned, but not as a possible chairman of one certain to stay. very loudly.

choice soon. Meanwhile Fred Silvester, Tory MP for a possible Witherington, Manchester, is Credit pressing for an adjournment France. by other Manchester area MPs in pushing the North-



It is the talk of le tout Paris in the French business world: Who will be getting the plum jobs that will come up when seven industrial groups and 36 banks finally fall under the control of the French State? The government was due to announce the appointments this week but with the constitutional council now not expected to issue its ruling on the legality of the nationalization Manchester has its eye on the before January 18, the sus-

estimates.

The Trade Department own idea of who will get the appears to be backing new jobs. Some appointments are virtually certain, such as capital is the best competitor that of Jean-Yves Haberer, to put up against other Treasury Director at the possible European homes for finance ministry, as the new the office. Brussels city has head of La Banque de Paris been pushing hard but et des Pays-Bas (Paribas), but Strasbourg and The Hague there could also be some are other sites which Euro- pretty controversial nomi-

ry loudly. of the two steel groups, Simon Nora, a support of companies which foreign Reg Eyre, junior minister Sacilor and Usinor, while a former Gaullist Prime Minis- firms have participation at the Department of Trade, senior Unionist from the ter Jacques Chabam Delmas, will have to confirm Britain's radical left CFDT Michel is seen as a possible succhoice soon. Meanwhile Fred Rolant, is being mentioned as cessor to Roux and Georges a possible future chairman of ebate and is being backed confirm the fears of its (CEA), may take over from existing chairman, Jean-Maxime Leveque, who has been one of the most ardent director at Electricité de the computer group.



First of the many? Jean-Yves Haberer, to be confirmed as

Among the present leaders expected to step down, of the industrial groups, possibly in favour of deputy Ambroise Roux of Compagnie Generale d'Electricite, Thomas, Crédit Lyonais Chairman Claude Pierre-Ugine Kuhlmann, Jacques Brossolette to be replaced by Mayoux of Sacilor and Claude Etchagaray of Usinor, Claude Etchagaray of Usinor, Jean Deflassieux, a friend of are due to step down, Jean-Pierre Bouyssonnie of Thom-Maurois, but Société Geneson and Jean Candois of rale chairman Maurice Laure Rhone-Poulenc might just could well stay on.

Besse, chairman of Cogema, Commercial de the industrial subsidiary of That would only the French nuclear Authority Michel Hug, the equipment

Franse (EDF), might replace Boyssonnie at Thomas and Alain Gomez, one of the founders of the left-wing Ceres Group and chairman of one of the Saint Gobain susidiaries, is sure to get a senior post, possibly at Rhone-Poulenc.

Raymond Levy, former deputy chairman of the oil holding company Erap, is tipped as a possible second chairman in the steel sector. Changes may also occur

within the banks already under state control. BNP Banque Nationalede Paris chairman Jacques Calvin, is international affairs director

Negotiations are still in progress regarding the nationalization of three other the computer group CII
Honeywell-Bull, the pharmaceutical group Roussel Uclaf
and ITT France, but already there is strong speculation that Gerard Thiery, the architect of France's modernized telephone sys-tem, will become chairman of

Car trap

John Heddle, the Tory MP for Litchfield and Tamworth, tells Business Diary of a nasty little trap in the Hire Purchase Act 1964 which, he says, could lead to many

from a firm which had leased the vehicle from a finance company and then went bankrupt so losing him both the car and the cash. Next week Heddle will try

to bring before Parliament a private member's Bill to amend the Act, arguing that vehicle leasing was almost unheard of in 1964 but is now big business.

Brothers thought it had a good joke when it put out an advertisement proclaiming "Persil Automatic gives you cleaner drawers . . . you won't see Persil Automatic sticking around your drawers". The joke, however, is upon Lever Brothers, which will have to change the ad because the Advertising Standards Auth-ority has upheld a complaint from a lady in Norfolk (but not from N.O.R.W.I.C.H.) who said Persil often stuck in the soap powder drawer of her washing machine.

Ross Davies

M. J. H. Nightingale & Co. Limited 27/28 Lovat Lane London EC3R 8EB Telephone 01-621 1212 The Over-the-Counter Market

194	B1780				~		· P	YE.
Kigb	Low	Company	Price	Ch'ge	Cross Div(p)	₩ 114	Actual	Fully Taxed
120	100	ABI Hldgs 10% CULS	120	_	10.0	8.3		
75	62	Airsprung Group	70	_	4.7	6.7	11.1	15.4
51	33	Armitage & Rhodes	46	_	4.3	9.3		8.7
200	187	Bardon Hill	199		9.7	4.9		11.8
104	85	Deborah Services	85	-1	5.5	6.6		8.0
129	97	Frank Horsell	127xd	-	6.4	5.0		23.5
70	· 39	Frederick Parker	70	+1	1.7	2.4		
78	46	George Blair	48	-				_
102	93	IPC	95	_	7.3	7.7	6.8	10.3
105	100	Isis Conv Pref	105	_	15.7	15.0		
113	95	Jackson Group	96	_	7.0	· 7.3	3.0	6.8
130	108	James Burrough	114	_	8.7	7.6		10.5
334	252	Robert Jenkins	252	-2	31.3	12.4		8.9
59	51	Scruttons "A"	56	_	5.3	9.5		8.0
222	167	Torday & Carlisle	167	_	10.7	6.4		9.9
15	10 '	Twinlock Ord	13	÷	_			
80	66	Twinlock 15% ULS	74	_	15.0	20.3	_	_
44	29	Unilock Holdings	29	_	3.0	10.3		8.8
103	77	Walter Alexander	77		6.4	8.3		9.0
263	212	W. S. Yeates	216	_	13.1	6.1	4.1	8.3
		Prices now availab		Preste		18146		7.5
		<u></u>						

Stock Exchange Prices

ACCOUNT DAYS: Dealings Began, Jan 11. Dealings End Jan 22. 5 Contango Day, Jan 25. Settlement Day, Feb 1



S Forward bargains are permitted on two previous days Price Ch'Es pence & P/E int. Gross enly Red. Yield Yield Gross Div Yid pence & P/E Gross Div Yid Price Ch'ge pence & COMMERCIAL AND INDUSTRIAL \$2.50 \$2.50 \$2.50 \$2.50 \$3.50 FINANCIAL TRUSTS 11952 2574 1143 2575 1145 2575 11575 130 58 20177128 376 20140 140 20140 INSURANCE Street, Season Company of the Compan 26.572 101 57
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G L C 152-4 1983 984
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MY Dari

MCCorquodals

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124 BP Canada
124 BP Canada
124 BP Canada
124 Can Pac Ord
84 El Pago
154 Exxon Corp
149 Fluor
1294 Hollinger
792 Husky Oil
672 NO Co
6434 IV Int
792 Kalser Alum
82 Massey Ferg
5194 Norton Simon
284 Pan Canadlau
177 Steep Rock
1794 Trans Can P
954 US Steel
1094 Zapata Corp 434 71.1g 5.8 20.2 15 TACE 20 55 TSL Thorm Syad 23 105 TSL Thorm Syad 23 105 Tables Grap 52 22 Tables Grap S16 Tarmac Lid 308 36 121 247₈ 67₂ 10.0 10.8 5.1 17.6 0.7 25.7 23.3 5.8 6.8 Sterling: Spot and Forward Market rates (clope)
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72.05-73.10f
13.93-14.60k
1.200-21440p
4.27-30m
123.20-124.70p
2232-866
10.90-88k
10.85-887
10.85-887
10.45-33k
10.42-2y
23.85-30.05ach
3.432-49-2 3 months
9.52-0.52c prend
9.15 prend-0.10c disc
54-4/sp prend
95-125c disc
44-5-310are prend
75-45p disc
59-44ph great
115-406c disc
50-55c disc
30-57fulr disc
455-330are prend
3-4c disc
715-650are prend
9.19-8.73y prend
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Bk Leumi UK 260
Bk of Scotland 412
Barclays Bank 446
Brown Shipley 227
Cater Alien Hidgs 223
Charteruse Grp 13
Chive Discount 18
Commerzbank 13054
Citicorp 133
Citicorp 134
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A and G Sec Fleet 5p Ord (80a)
Baillie Gifford Japan Trust 25p Ord (100)
Cable and Wireless 50p Ord (168)
City Site 25p Ord (35a)
Computer and Systems Eng 20p Ord (225)
Cussins Property Group 20p Ord (82)
Equipu 10p Ord (80a)
Exen International 10p Ord (140)
Good Relations Group 10p Ord (100a)
Hardanger Properties 10p Ord (100a)
Horav Pinh Exp
Newmarket Co (100a)
Deck Hotings 1p Ord (52 55a)
Owners Abroad 10p Ord (105a)
Peck Hotings 1p Ord
Saxun (01 5up Ord (125p pad)
Sperhawk 10p Ord (125p
Telexision South 10p Ord NV (ak)
Do 14/20% 1968-88 Ln (ak) 1.5450-1.5480 1.4897-1.1899 24935-2.5016 38.80-38.83 7.4525-7.4575 2.860-2.3570 48.10-66.30 98.10-66.30 98.10-66.30 98.10-66.30 98.10-68.30 1722-1222 5.8400-5.8458 5.6560-5.8168 5.6560-5.8168 222,90-224 10 15.96-15.99 1.8500-1.8515 * Ireland
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Gestellar 'A' Local As 16¹2-15¹2 16¹2-15¹3 16-15¹4 16-15¹4 15¹2-15¹4 15¹3-15¹4 herity Bonds
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Latest Europ

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Rugby Union

Australian coach defends his tactics

Sydney, Jan 13—A pale but firm Australian coach, Bob Tem-pleton, defended tactics and selecions on the Australian tour of Britain when the team returned here today. Mr Templeton said at a press conference: "I accept the blame for whatever you want to

The opposition in Britain, the coach said, played mainly not to lose, rather than to win: "We found the opposition kicking and waiting for us to make errors. We were put under enormous pressure and found we couldn't run ourselves out of trouble. But we scored 63 tries in 23 matches, con-ceding nine despite bad weather. sloppy grounds and new rules interpretations."

The team manager, Sir-Nicholas Shehadie, denied that the Australian captain, Tony Shaw, had learned of his dropping from nau tearned or its dropping from the captainty for the final inter-national from the British press. Sir Nicholas ridiculed reports of team disharmony and jealousy be-tween players from different

Asked about a story published in Australia by a Sydney journalist, David Lord, on team unhappiness, selection disagreements and lack of morale, Sir Nicholas said: "How would be (Lord) know? He was on the Continent with a group of tourists for many of our games."

Sir Nicholas said some of the older players like John Hipwell would probably retire from touring but laughed at suggestions of mass transfers to Rugby League in disasticforms. mass transfers to Rugby League in dissatisfaction at selection or management of the Wallaby tour: It is believed North Sydney have signed the Manly player, Mitchell Cox and others will be approached when they have rested.

Mr Templeson said the injury to Michael O'Connor and a later setback before the clash with Scotland had jarred team balance:" Then Michael Hawker went on the casualty list to com-ound our problems."

went on the casualty list to compound our problems."
He said the hardest adjustment was to overcome the stifling of the Wallaby inside backs and tactics employed against the Australian rusuming style.—AP.

If Mr Templeton's observations about Britist rugby sound more scerbic than those he uttered here before departure, that is understandable, Peter West writes. I believe the Wallabies have had a rough rid in their own press. Mr Templeton may have felt on the defensive.

Templeton may have felt on the defensive.

He need not worry unduly. As Number Two to Sir Nicholas, he was part of as good a management team as ever toured these islands and I dare say it would be the first to stress how much, with Shaw, it owed to the support of senior players such as Mark Loane, Hipwell, Greg Cornelsen and Paul McLean. As I commented on Tuesday—although these particular words mistakenly were attributed to Mickey Steele-Bodger—as ambassadors the Wallables did themselves and their country proud.

Boxing

Dublin international postponed a week

By Peter West Rugby Correspondent

The adverse weather, especially in Wales, has caused the international between Ireland and international between Ireland and Wales, due to have been played in Dubin on Saturday, to be postponed for a week. Tickets for the original date remain valid. It is 50 years since a big match was last called off at Lansdowne Road.

A joint statement from the Irish and Welsh Rugby Unions said that special account had been taken of the travel difficulties the Welsh team and supporters would have faced. Apart from that, there was no assurance that the Lansdowne Road pitch would have become playable in time. The WRU coaching organizer,

John Dawes, hailed the postpone-ment as a blessing in disguise.

"Our players have hardly had a game in weeks," he said, "so I doubt whether they could have been genuinely fit enough to play an international." play an international."
As things stand, both teams may be lucky if they get in any match practice before January 23. They are hoping on both sides of the water to assemble their squads for the usual preliminaries on Sunday. It seems highly improbable that the Weish on that occasion will be able to train outdoors. train outdoors.

train outdoors.

A by-product of the postponement involves concern in Wales about the third round ties in the Welsh Cup, sponsored by Schweppes, due on Saturday week. Brian Kempson, assistant secretary of the Welsh, union, said yesterday that they would have to find a new date, or dates, at least for those clubs whose players will be in Dublin that day. A further statement is expected, but meanwhile Mrtost day. A further statement is expected, but meanwhile Mr. Kempson takes the view that his union should deal with one crisis at a time. There are several second round cup ties still un-

treatment, will not prevent him travelling with the English party to Edinburgh this morning in preparation for Saturday's Cal-

Hesford whether he will be fit enough to do himself justice, but his morale can be none the worse morale can be none the worse for hearing from the selectors that they want to give him as much time as possible to prove his readiness to play. As Don Rutherford told him from Twickenham yesterday, the English party will include a doctor, an orthopsedic surgeon and a physiotherapist, so he should not be chort of expert advice. be short of expert advice.

If Hestord has to withdraw, Teague will become the fifth forward from the Gloucester club to win a cap in 13 months. Philip Blakeway played in all four championship matches last season and, when replaced in the Ireland international, made way for his chuk-colleague Gordon. for his club-colleague, Gordon Sargent. Steve Mills and John Fidler both won two caps in Argentina in the summer. Teague, aged 22, is a product of Churchdown Comprehensive School who joined Gloucester from the local junior club, Old Blues, three years ago, winning a regular place last season.

Trojans face Scots

London Scottish and Black-heath have decided to postpone their match on Saturday because that day. A further statement is expected, but meanwhile MrKempson takes the wiew that his unson should deal with one crisis at a time. There are several second round cup ties still unsersived.

Bob Hesford's strained ankle that match on Saturday because they are due to meet in the step yere due to meet in the war due to meet in the weekend. London Scottish have now arranged an away match with Trojans at Southampton, while Blackheath will entertain the Warwickstüre club, Newbold-on-Avon at the Rectory Field.

Rugby League

Carleton rejects Wigan

By Keith Macklin

John Carleton, the England
Rugby Union winger, has again
rejected a tempting offer to turn
professional. Carleton plays forOrrell, which is just a stone's
throw from the Wigan ground at
Central Park, and Wigan have
made a £40,000 bid to sign the
winger. The terms appear to have
been a £20,000 down payment
with a forther £20,000 phased
over several seasons, conditional
no doubt on Carleton's regular
appearances. appearances.

appearances.

Despite these attractive terms, Carleston has again chosen to retain his amateur status and continue his successful career with England. Two years ago he was the subject of a bid from Widnes, which was then stated to be in the region of £25,000. Wigan and Widnes ere not the only clubs to be showing interest in Carleton, whose speed, toughness and try-

scoring flair make him a natural candidate for Rugby League.

Hull Kingston Rovers, one of the two big-spending Humberside clubs, are also in the chase, and have not been discouraged by Carleton's rejection of the Wigan offer. St Helens are also watching on the sidelines, although they have just spent £37,000 on a young forward from Keighley, Gary Moorby. young forward Cary Moorby.

It now seems certain that the rear Britain v France under-24 It now seems certain that the Great Britain v France moder-24 intermational on Saturday will be moved to Headingley. Although a final decision is to be made this afternoon by a senior referes John McDonald, the Leigh general manager John Stringer said yesterday: "There is a covering of snow and several degrees of frost in the pitch. There will have to be a remarkable rise in temperature to get the pitch ready." 1882 Calcutta Cup defeat spelt the end for England's captain

THE TIMES THURSDAY JANUARY 14 1982

How Hornby left the rails

The England-Scotland match of 1882 was played at Man-chester, and won by Scot-land by two tries to nil. It was the twelth of the scries and the fourth for the Calcutta Cup, which the Calcutta Club, finding themselves short of players, and even more of opponents, once the Buffs had departed, presented as their own memorial to the game in 1878. It was a memorable match

in more ways than one. It was the first time either side had won on the other's territory. It was the first time it had been thought necessary to have a neutral referee. The precaution did not stop

the game becoming disorderly. According to the account in the 1892 edition of Marsball's history, "there was an enormous crowd of spectators, and the management utterly failed to cope with the numbers, who climbed over the barriers and invaded the field of play. It was a marvel how the game was continued at all . . . the only point in England's favour was a good run by Payne, who but for the spectators might have crossed the line."

There is an English flavour to that report, but it seems to have been a typical Manchester crowd. No doubt some of them, in that first age of the train, may have come from across the border.

The English captain was A:
N. Hornby. He was a Lancashire man, very much so, and
it was his last international. Later that year Hornby cap-tained England at cricket (in the famous Oval match when Australia won by seven runs) and became the first man to have led England at both

He played at full back, though he did not have the physique for it, as it was expected in those days; he was a light nimble man, nick-named "Monkey" at Harrow, not for his looks but his small size. He had done better as a three-quarter in previous internationals.

Anyway, he did not have a happy match. Marshall is severe: "Hornby was unequal to the task of keeping the Scotsmen out. His tackling was good, but in fielding the ball and in punting he was far re-moved from his best form." Thus ended poor Hornby, as

a rugby international, though he had much glory still to come on Lancashire's cricket field. Later, I imagine, in some desperate selection crisis, he was asked to play against Scotland again, but declined, be-cause, he explained, it would interfere with his shooting, which was going "particularly But the Scottish hero at Man-well." (sic).

In 1882 the game had been Lagan, their right three-



became honorary treasurer of the RFU.

three-quarters and a full back, hough Scotland seemed to have perplexed England and Hornby, by playing three threequarters from time to time The England side included a

strong contingent from northern clubs: three from Mauchester and one each from Swinton, Broughton, Halifax and Yorksbire Wanderers (the others came from the universities and the two senior clubs, Blackheath and Richmond). There were stready dark rumours about under-cover

professionalism in the north. The Scotland side was made up entirely from the former pupils clubs: not a Borderer in the team. Their half backs were A. R. Don Wauchope, of Fettesian-Lorettonians, and W. Forley Brown, of Edinburgh In-stitution FP (the Institution was then the strongest Scottish club and four of their members were chosen).

Don Wauchope played 11 times for Scotland, a formidable figure in those days of few international fixtures, and Brown eight. Don Wauchope's tactical developments at the base of the scrum were to prove important to the game, as were those of Vassall, who was in the England side, and had much to do with introducing the system of three threequarters into English rugby. But the Scottish hero at Mana different section, which was contributed by a Scottish

"Although defence was un-doubtedly MacLagan's strong point, if he got the ball within a dozen yards of the line he was a most dangerous man in more waps than one and an ordinary player might well be excused if he took second thought about standing up before him when he was bent upon scoring.

"Roughness has often been imputed to him and there is no doubt in his younger days he now and again gave exhibi-tions of his strength which were not good for the subjects. More than once he has tossed man, full pitch as the bowlers would say, onto the little paling at Raeburn Place and made the timber crack." I have put in the italics my-self, but I stress that this is

an acount of a Scotsman, written by a Scotsman. Looking back on this match not a lot seems to have changed: rough play, crowd trouble, rumours of professionalism. But everybody seemed to enjoy themselves, apart possibly from those tossed onto the palings by MacLagau. And Scotland won. Let us hope that at least the first of these provisions applies when England next met Scotland.

Alan Gibson

McKenzie defends despite | Raleigh team dispute with his manager

Clinton McKenzie, from Croydon, will take a contractual dispute with his manager to the Boxing Board of Control only days before he defends his British light-welterweight title against Steve Early, from Coventry, at the Bloomsbury Centre Hotel in London on February 19.

McKenzie aged 26 confirmed

McKenzie, aged 26, confirmed yesterday that his manager, George Francis, will not be in his corner when be fights Early for his biggest ever purse of F7 500.

" The Board of Control are discussing the position at a special meeting on February 2", he said.
"But whatever happens, my father-in-law, Fred Rix will be in my corner for this fight. I must confess, however, the problem is worrying me. I even go to bed at nights thinking about it."

The bout, which is already sold oot. creates a number of "firsts" for followers of boxing in Loudou. It will be staged by a new promoter, Frank Warren, aged 29, who may yet break the current monopoly held for more than 10 years by Harry Levene, Mike Barrett and Micky Duff.

It is also on a Friday night—strange in British boxing circles The bout, which is already sold

Spinks, a gold medallist at the

1976 Montreal Olympics, has won all 18 of his professional bouts, stopping 12 opponents. He took

Good skiing on upper slopes

ritle from another American, Eddie Mustaffa Muhammad, in Las Vagas last July, winning a 15—and will be televised by the BBC—a rara occasion for them to televise a London show not pro-moted by the recognized con-

sortiam. Mr Warren said yesterday: "I think getting the BBC to cover the fight is a breakthrough. Too often in the past, they have been content to cover shows at Content to cover shows at Wembley and the Albert Hall and

little else.

"But I think it is their duty to give every promoter a fair track of the whip, and to televise good fights, whoever the promoter is. Now that the BBC have shown they are willing to negotiate with other promoters, it must be good for boxing and boxing fans."

McKenzie revealed that he had been offered less than Mr War-ren's purse to defend his tide at the Royal Albert Hall—oue of the reasons for his split with Francis. Mr Warren, who is also expected to amnounce a Commonwealth title fight in the next day or so, claimed that he could, if necessary, stage shows at the Royal Albert Hall and Wembley Conference Centre. He said: "If the terms are right, and I get the right sort of fights, then that is where I will promote."

Wasajia, based in Denmark, is also undefeated, with 26 consecu-tive victories. He has stopped five of his opponents. It will be the first American appearance by

the Ugandan, whose most notable wins were over a former cham-pion, Bob Foster, and two rank-ing Americans Jease Burnett and Jerry Celestine.—Reuter.

Cycling,

that rings the changes By John Wilcockson

TI Raleigh presented a stream-lined 1982 racing team to the European press at a reception yesterday in the Bois de Boulogne yesterday in the Bois de Boulogne in Paris. The squad has been reduced from 16 to 14 riders, having lost the 1980 Tour de France winner, Joop Zoetemelk to his former French team and the 1979 world pursuit champion, Bert Oosterbosch, to a Belgian formation. Jo Maas, Bert Pronk and Wilfried Wesemael, all experienced riders, have also left.

In their place, the team director, Peter Post, has signed three
replacements, all from the Netherlands. Of these, Fritz Pirard is
the most experienced, starting his
fourth year as a professional after
previously racing with French and
Belgian teams. Second place in
the Tour of Flanders Classic was
his best result last year.

The Creda branch of Tube Intercept orange of the lawestments is not putting money into the team this year. The replacement as co-sponsor is the Italian components manufacturer, Campagnolo, which will support IT Raleigh for a minimum of two

A decision has yet to be made A decision has yet to be made whether the Dutch-based team will compete for the first time in the Tour of Italy, prior to its regular participation in the Tour de France. The team's best chance of prestige wins will be in the one-day classics, in which the team leader, Jan Raas, again excelled last season. But the Northigham management would be most pleased with success in the world championship road race, which take: place at Goodwood in September.

Resides their European involve.

wood in September.

Besides their European involvement, Tl Raleigh have also announced a £4,500 sponsorship of two British road race competitions, the Raleigh Riband for professionals and the Raleigh Star Trophy for amateurs. This follows the withdrawal of Pernod as the leading sponsors

Yachting

Crebbin is Britain's choice Davis unable to

By a Special Correspondent

Phil Crebbin will be the skipper and sailing manager of Britain's chalenge for the 1983 America's Cup. His appointment was announced yesterday by Peter de Savary, head of the Victory syndicate which is organizing the challenge for yachning's most important trophy. Crebbin, aged 30, was skipper of the Victory crew that won the 1981 Admiral's Cup and, amid a long list of yachning actievements, represented Great Britain at the 1976 Olympic Games.

Progress on building the aluminium-hulted 12-metre class yacht, at Souters of Cowes, is on schedule, and, a launch date at the end of March is a realistic proposition. The yacht will then be shipped to Newport. Rhode

proposition. The yacht will then be shipped to Newport. Rhods Island, where the summer train-ing session will start on the first of May. Shore facilities at New-port, including boaryard, boat hoists, sail loft and accommoda-tion for the team of 50 are all

Once shipped to the states, Victory will tune up throughout the summer against Australia,

the defeated challenger in 1980 which the symbolete has bought. A variety of helmsmen will be flown out to sail against Crebbin as and when available, with such names as Chris Law, Lawrie Smith and Harold Cudmore being

names as Chris Law, Lawrie Smith and Harold Cudmore being mendoned.

Although naming a skipper for the challenge, it was clear that no one person within the team would be indispensable. It was also stressed that the decision about whether to use a separate tactician and navigator would be taken when the personstities involved had had a chance to work together.

Mr de Savary has already achieved a greater degree of cooperation between the eight expected challengers than has been possible before, and has arranged for Australia to have three separate training sessions against his team during 1982. It was further made clear that the syndicate intend to win the cup on the water, and not in the protest room, or lose it on a technicality and to this end all the challengers are working together to straighten out all possible technical uncertainties.

Flyer breaks record

By Barry Pickthall Flyer, the 76ft Frers design skippered by the Dutch yachtsman Cornelis van Rietschoten, rounded Cape Horn at 5.30 GMT vesterday to clip more than three days off the record for this sector of the third leg of the Round the World race from Auckland. The Dutch yacht which has also

broken the records for the two previous legs of this 27,080-mile race, sponsored by Whitbread, was followed less than half an hour later by the 68ft Ceramco New Zealand, skippered by Pete Blake. The two yachts have been racing almost neck and neck across the southern ocean for the past two weeks, often in sight of each other, setting an average of 10.7 knots for the 4,700-mile dis-

In a radio message to The Times yesterday van Rietschoten reported that the weather conditions around this, the world's most notorious cape where winds can build up to hurricane force within hours and where his previous yacht suffered a severe knockdown during the last race four years ago, were living up to expectations. The wind strength had varied from almost nothing to force 11 during the day and very heavy rain had reduced visibility dramatically as well as making life uncomfortable on deck. The local weather forecast for the next two days predicts light The local weather forecast for the next two days predicts light north-westerly headwinds, which will undoubtedly slow those yachts astern, including Eric Tabarly's Penduick VI, the earlier record holder which is thought to be in third place.

Snooker

twist knife in Griffiths

By a Special Correspondent
Terry Griffiths enjoyed the rare
distinction of being twice pursued by Steve Davis in the Lada
Classic 17-frame final at Oldham
yesterday.
He went in at the interval for

He went in at the interval for tea that must have tasted like nectar leading 4—3. When Davis scored with his first shot of the match and finished the frame with a clearance of 96, visious loomed of a repeat of last month's United Kingdom final when he crushed Griffiths 16—3

when he crushed Griffiths 16—3 at Preston.

They were not erased after Griffiths had levelled the score in the second. But a battle on blue in the third brought a quickening of the pulse. For 15 minutes the players were locked in dispute on this colour.

Griffiths, world champion in 1979, needed it for advantage. Davis required it, the remaining two colours and a couple of snookers. Typically, he would not bend.

bend.

The world champlon managed one snooker, but Griffiths managed to pot the ball that mattered. From leading 2—1 he found himself on the wrong end of the see-saw and trailing by the odd frame after five. Davis had put in the knife again but for once could not twist it.

Although looking refreshed after his tremendous semi-final victory over Ray Reardon when after his tremendous semi-final victory over Ray Reardon when he clinched the match in the last frame with a clearance of 105, another large score could not be stitched together, against the Lianeili professional.

It was left to Griffiths to work the cue ball around the table, taking the sixth 62—31 and the last frame of the session 86—39. He rinned the scales with his He tipped the scales with his second half-century of the match that brought the winner's cheque of £5,000 into range.

Ice hockey NATIONAL LEAGUE: Montrea Canadians 2, Los Angeles Kings 1.

thought to be in third place.

Latest European snow reports

Spinks defends title again

New York, Jan 13.—The World Boxing Association light-heavy-weight champion, Michael Spinks, of the United States, will defend his title against the No 1 contender. Mustafa Wasajja, of Uganda, in Atlantic City on February 13.

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in the above reports supplied by representatives of the Ski Club of Great Britain. L refers to lower slopes and U to upper slopes. The following reports have been received from other sources: Depth State (cm) of Weather L U Piste — C

Skiing

Downhill world cup win for Canadian girl

Grindelwald, Jan 13.—Gerry Sorensen, aged 23, from Kim-berley, British Columbia, pro-duced another fine performance for the Canadian ski team by winning a women's world cup downhill here today. The best of Canada's women downhillers, she confirmed the

novamiles, she continued the potential she showed in practice to record her second world cup downhill victory. She won an event in Haus, Austria, last Sorensen sped down a difficult, icy 3.2 kilometres course in 2min 00.54sec to win by 0.32sec from Marie-Cecile Gros-Gaudenier of France, who clocked 2min 00.86

Sec.

LEADING POSITIONS: 1. Gerry Sorensem (Cahada), 2 min 00.54 sec; 2. Maric-Cacile Gros-Gaudenter (France), 2.00.65; 3. Elizabeth Chand (France), 2:00.09; 4. Cindy Nelson (US), 2:01.58; 5. Ingrid Eboric (Ansiris), 2:01.59; 6. Holly Flanders (US), 2:01.64, 50; 5. Sorensen 36; 4. Epple 35; 5. Eberle 25; squal 6. Soekher, Chaud, 21, Erika Hess (Switzerland), 2:15 pis; 2. Irene Epple (West Garmany), 197; 6. Christine Cooper (United States), 90; 4. Perrine Peiem (France), 27; 6. Mario-Rosa Quario (Utaly), 77; 6. Mario-Rosa Quario (Utaly), 77; 6.

Tennis

Mottram will reinforce Britain's team By Rex Bellamy

Christopher Mottram reinforces the twice beaten British King's Cup team against the Netherlands in Amsterdam today. John Feaver, Jeremy Dier and John Whiteford were beaten 2—1 by West Germany at Hanover last Thursday and 3-0 by Sweden at Eskiltuna on Sunday. After today's match the British team fly home to play the same three nations in return matches, The first of these will be against Germany at Cardiff on Sunday. The Lawn Tennis Association had considered charging the location. the Lawn lamb savolation had considered changing the location because of the weather, but Cardiff is now accessible.

The Germans who beat Britain at Hanover were Ulrich Pinner.

Peter Eiter, Christopher Zipf and Hans-Peter Beutel and the same players are travelling to Cardiff, where Mottram will again be available to strengthen the British team. AUCKLAND: C. Lewis (NZ) beat Hightower (L/S) 6—2.6—3; R impeon (NZ) beat R Evernden (NZ), impeon (NZ) beat R Evernden (NZ), est D Carrer (Anstralia) 6—3, 0—6, set D Carrer (Anstralia) 6—3, 0—6, tanbury (US) 6—6. Badminton

17 nations in Japanese championships

Kobe, Jan 13.—All-England stogles champion, Sun Ai Hwang of South Korea will be the outstanding player on view when the 10 million yen (£24,000) Japan open championships star

tomorrow.

More than 80 players from 17 nations will take part and the women's field is stronger than the men's. Other top women here include world champion between the beading Chinese players, Chen Ruizhen and Li Lingwel.

The men's field has been downgraded by the late withdrawal of two former all-England champions. Rudy Hartono of champions, Rudy Hartono of Indonesia and Indian Prakash Padukone.

GARFORTH: Debenhams \$8,500 Challenge Vase chempiouship: (Bnars (Norfolk) best A Dwyor (Suston, 9—6, 9—1, 9—2, I ennis JOHANNESBURG: Lexington PGA championship, first round (SA unless stated) 65. D Walson: 66: D Frherty (Ireland). G Howning: 67: B Rongers (US), M McNally, D Robertson (US), S Hobday, J Hawker, D Smythe (Ireland). D Fost, A Bernnett (GB), M Rarton (GB). Other scores 70: M Rarton (GB). Other scores 70: The Way (GB), B Sharrock (Ireland), 71: R Rafferty (Ireland), J O'lyan (Ireland). P Thomas (GB), M Hunsphreys (GB), A Chapdier (GB), A Murray (GB).

For the record

Basketball

NATIONAL ASSOCIATION: Les Angeles Lakers 111. Cleveland Cavaliers 100: Philadelphia 76ors 95. Washington Bullets 92: Dotroit Pistons 122. Chicage Bulla 111: San Antonio Spurs 127. Dallas Mavericks 109: Housion Rockets 107. San Diego Chipters 106: New York Knicks 129. Ulah Jazz 121: Phorak Suns 133, Golden State Warriors 121: Denver Nusgets 137, Kansas City Kings 126. KORAC GUP: Men's quarter-final, third series, group D: Tours 94, EFES istanbol 75

Cresta Run st MORITZ: Baron Octizen Cup thandicap: 1. M Sispleton (GB) handicap 4.90. net 1.31.69: 2, H R Gionzmann (Switzerland) 5.50, 1.331.99: 3, N Baracchi (Switzerland) keratch, 1.32.29;

Football ITALIAN LEAGUE (CALANZARO I. Squash rackets

CIMEIS

CINCINNATI: Women's tournament:

R Potter heat Duk Hee Lee, 6—0.
6—4: 5 Hanika (WC) beat P Teeguarden, 6—3. 6—1: L W King heat

R Fairbank (SA), 6—3. 7—6: T

Anglin heat J Harrington, 6—6. 6—1:

P Cassle beat W Vernnark (SA), 7—5.
6—2: J Duric and A Hobbs (SB) beat

Antonolls and A Hobbs (SB) beat

L Antonolls and T Vernnark, 7—5.
1—5: 7—5: P Potter and S Walsh beat

L Alica and J Russell, 6—4, 6—3.

L Alica and J Russell, 6—4, 6—5.

And Duk Hee Lee, 6—2, 6—2, 6—2.

Football

Eight clubs in League Cup semi-final draw

The League Cup semi-final draw will go ahead as planted today, although none of the quarter-finals have been comquarter-mais have been com-pleted. Liverpool's match against Barnsley went ahead as scheduled but the goalless draw means a replay at Oakwell on Tuesday.

replay at Oakwell on Tuesday.
The other quarter-finals have
all been rescheduled for Monday,
but Ipswich Town and Watford
have agreed to play their game on
Saturday if their league matches
are postponed. Ipswich are away
to Sunderland and Watford home
to Newractal linead and wather to Newcastle United and neither game is given much chance unless there is a dramatic improvement in the weather. The number of league and cup postponements has now reached 285 and the total seems sure to pass 300 on Saturday, when the programme is in danger of being virtually wiped out for the fifth time this season.

John Toshack, Swansea City's

out for the fifth base this season.

John Toshack, Swansea City's manager, was disappointed yesterday when his request for a postponement of the first division match at Leeds on Saturday was rejected by the Football League management committee.

Mr Toshack had pointed out to the League that because of the adverse weather conditions in Wales his players had been unable to train for a week and the raff strike and the condition of the motorways was combining to make travelling virtually impossible. The coach company which usually takes Swansea players on away matches is also not prepared to commit itself to a Friday trip.

The League's view is that as the rail strike ends and with three days to the match, the weather in Wales still has time to make improvement, What may also have swayed the League is that the Leeds pitch has undersoil heating and is in near perfect condition. It is one of the few

matches that seems certain to be played.

Sheffield Wednesday's manager, Jack Charlton, yesterday; gave this advice to all his club's supporters: "Don't bother to gave this advice to all his club's supporters: "Don't bother to watch us at Derby". Mr Charlton is angry that Derby County, due to meet Wednesday at the Baseball Ground on January 30, have raised their prices for visiting supporters. Derby is only 38 miles from Sheffield and the expected 7,000 Wednesday supporters are faced with a minimum entrance fee of \$4 to see the match. Derby claim they have increased their prices for visiting supporters in an effort to keep out hooligans. an effort to keep out hooligans.

Plans by Rangers to beat the weather and play Tortenham Hotspur at Ibrix on Saturday have fallen flat. The Scottish League management committee will demand that the premier division club clear a postponed fixture against Dundee United originally scheduled on November 28—the day the two teams met in the Scottish League Cup final. Everything depends on Rangers' away game against St Mirren, Dundee United's derby against Dundee and Spurs' home game with Middlesbrough, all, of which are doubtful at the moment.

Today's fixtures FA TROPHY: Third qualifying round, replays: Graves and y Spoon and Ewell: Addissione and Weyfride e Leatherhead; St Alban's Clu Enderthy Town Addissione and Weyfride e Leatherhead; St Alban's Clu Enderthy Town Addissione and State of the Postpone of the

are doubtful at the momen

Beautiful and bizarre in great California desert

From John Ballantine
Palm Springs, Jan 13
Golf as played here in the great
Californian desert, in the Bob
Hope Classic, is at once beautiful
and bizarre, easy and difficult,
frustrating but often rewarding.
Perhaps the best way for Britons
to see the picture is to imagine
the scene laid out as a model.
Square green-motiled coconut
matting could represent the flat
sand and scrub desert floor, Down
one side place a ronge of stark
brown mountains against which
the four golf courses of Indian
Wells, Beranuda Dunes, Eldorado
and La Quinta nestle like green
linen handkerthiefs. A gentle
fold or two in the latter could
indicate the few undulations,
especially round the greens,
which were moulded by buildozers. Six or seven pieces of
glass on each handkerthief could
imitate strategically placed manimitate strategically placed man-made lakes. Hundreds of palm trees and bushes, together with a mulitude of bunkers, complete

the picture.

The courses are a few miles apart and every professional plays each of them in turn for four days with three different amateurs each day, the 70 leading profes-sionals returning to Indian Wells sionals returning to Indian Wells for a fifth and final round on Sunday. At the Hope players can sumbathe by their swimming pools in Palm Springs in 75 deg. and, half an hour later, via the Swiss-built aerial tramway step

AS PER RULE

out into 20 deg. and two feet of snow at the summer of the 8,000ft San Jacinto mountain. From the top the irregular scrub on the floor of the Coachella valley marks the dreaded San Andrea earthquake fanit where California may, one day, break off into the Pacific like a dry biscuit. A local loke goes:
"At least our houses will then appreciate as beachfront prop-

Last week Tucson was th third driest and warmest spot in this blizzard-plaqued nation and the tour professionals look like being lucky again this week. A 20 mph wind made the paims buzz like windmills on all courses to-day, and stirred up occasional small sandstorms in the surround-ing desert; but it was still shirtsleeve weather.

The courses are marvels of in-

genuity, albeit artificial. This soil is so productive that, as they also say in Florida, you just have to plant sprigs of heat-resisting rve or Bermuda grass, add a few million gallons of water, and then imp back.

Yesterday the leading profes-

stonals played a charity "all-American" day at Peter Ooster-huls's club, Mission Hills. Lanny Waddins won the warm-up event. scoring eight birdies in a four under par 58, with Ben Cronshaw and Bobby Clampett tied second. Craig Stadler, last week's Tucson winner, scored 81.

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VERNONS POOLS, LIVERPOOL WINNERS EVERYWHERE THIS WEEK on the

SIX GOES A PENNY TREBLE CHANCE Six Goes a Penny Treble 4 DRAWS Chance 3 di See Rule 9. 9 HOMES ..£2.35 5 AWAYS ..£0.50 22% ots ... Above Dividends to Units of 10p. Expenses and Commission for 7th November 1981 — 32 5%

ASK YOUR LOCAL COLLECTOR FOR VERNONS EXCLUSIVE SIX GOES A PERRY TREBLE CHANCE COUPONS WITH THE INSTANT COPY



Treble Chance Dividends to

PPA Note-Due to the Holiday period, receipt of winnings may be delayed. From Richard Streeton Madras, Jan 13

Madras, Jan 13

England boldly gave India first nic of a lively worket when the stream of the worker gamble ineffective. Vengsarkar later carried India had reiched 178 for two and on their or carried India had reiched 178 for two and on their Vengsarkar was hit on the back to fithe head shortly after tea by a bouncer from Willis that hardly rose waster, high collapsed on the puch and waster ventually helped off and went in a precautionary X-ray examination.

Forceful drives on both sides of the wicker were the main feature of Vengsarkar's batting and without him India's progress would have been funereal.

This was the lowest first day core in a peries of mostly grim batting and gengland's over rate of 12 an hour throughout was also the worst by either side, plannbing new depths of unnecessary tedium, having made that mint, it also has to be stream how splendidly Englands of the plant and was also the worst by either side, plannbing new depths of unnecessary tedium, having made that mint, it also has to be stream how splendidly Englands of the worker with commendable spirit. The side also fielded with zest all its former picturesque and olde world features in the same and of the mint have read the man have featured to be with the same and the fillip they needed and warugling. Fletcher needs no institute in the sites had lindia struggling.

Fletcher needs no institute for his decision to put India in after he won the toss for the fourth successive Test march. Where he could be faulted, perhaps, was in not giving the new ball to Allott as he originally intended to do.

Botham and Taylor, England's two invalids overnight, were both with with willis and undestandably was not able to use it with his aw

flagged.

There was always enough abounce in the greenish pitch to keep the bowlers interested and india's resolute batting has to be praised. Viswanath, who has so far been in three hours and a quarter, in particular disciplined himself well and yashpal Sharma played through the final hour with faultless concentration as England desperately sought a further breakthrough.

Willis bowled with more fire and steely resolution than he has shown in the earlier tests. Dilley began well but carried less threat later and it was Allott who caused the Indians more trouble than anyone else.

Controversial

wicket

control.

When Botham bowled much better later on the batsmen were entrenched. Underwood only had ten overs and both Vengsarkar and Viswanath used their feet freely against him. Underwood though will undoubtedly come into his own later in the match. The bounce is already erratic and the pitch might yet yield some turn later in the game.

The atmosphere was electrical

the bounce is already erratic and the bundity to match.

The Chepauk ground has lost all its former picturesque and olde world features in its recent rebuilding and is now one more giant concrete stadium with covered grandstands. The centre of the field must have been like a furnace but Eugland never flagged.

There was always enough bounce in the greenish pitch to keep the bowlers interested and India's resolute batting has to be praised. Viswanath, who has so iar been in three hours and a quarter, in particular disciplined himself well and Yashpal Sharma played through the final hour with faultless concentration as England desperately sought and steely resolution than he has shown in the early stages when Willis bowled with more fire and steely resolution than he has shown in the early stages when Willis some turn later in the game.

The atmosphere was electrical in the early stages when Willis some with balls that reared nastily and some time and the pitch might yet yield some turn later in the game.

The atmosphere was electrical in the early stages when Willis some with balls that reared nastily and some time he arry stages when Willis some to conce nearly played on after being strock on the arm and he was also hit on the side of the bead, but he survived Willis's opening with the survived Willis's opening with the survived Willis's opening with a steeply down to his feet.

Roy, playing in his first test match, attempted little and India had scored 11 runs when the first included a forceful square cut for four by Gavaskar against Dilley's first ball when he replaced Botham.

Gavaskar had reached 8 and the pitch might yet yield some turn later in the game.

The atmosphere was electrical in the early stages when Willis some with balls that reared nastily and sometimes moved away. Gavaskar who had sometimes moved was a so hit on the side of the bead, but he survived Willis's opening with ball safely down to his feet.

Roy, playing in his first test match, attempted little and India had scored 11 runs when the

Gayaskar had reached 8 and the total was 13 when he was missed at first slip by Tavare from the first hall Allott bowled. He drove loosely and the ball flew through Tavare's hands to the way through to Taylor. Dilley in his follow-through carried on

Melbourne, Jan 13. — The controversial Melbourne wicket in to be completely reconstructed, a Victorian Cricket Association (VCA) official said today. The decision follows pressure from the VCA and criticism of the wicket by Greg Chappell, the Australian Test captain. Others who have criticized it include Clive Lloyd, the West Indies appairan. The VCA accretary, Ken Jacobs, said that after talks between his association and the Melbourna Cricket Club, it was agreed that the centre wicket area at the ground would be a handicap to the team match with Pakistan in the World Series Cup at Sydney Cricket of contact leuses tomorrow. The West Indies because he felt be would be a handicap to the team match with Pakistan in the World Series Cup at Sydney Cricket of contact leuses tomorrow. The West Indies because he felt be would be a handicap to the team match with a need to wish a need to wish a need to weight. Sarfraz will try a new pair of contact leuses tomorrow. The West Indies because he felt be with a need to with a need to weight. Sarfraz will try a new pair of contact leuses tomorrow. The world of contact leuses tomorrow in the world series Cup at Sydney Cricket of contact leuses tomorrow. The West Indies because and pair to be with a need to wastralian sead on the strike rate in the series but new for the will have a chan

with a world record one-day match crowd of 78,142 at Sunday's game between Australia and West Indies at Melbourne of the finals will be played in Melbourne on January 23 but it is a likely to recourse anything

unlikely to produce anything near that figure.

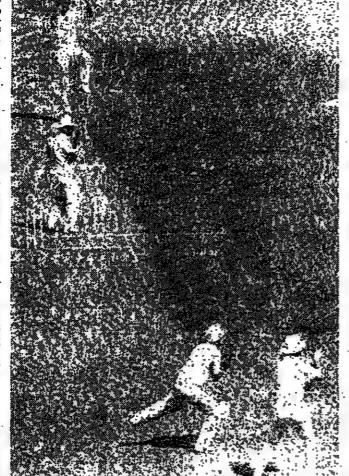
Pakistan are convinced they are the victims of official blundering as they fail to get centre wicket practice at the Sydney Cricket Ground. The

manager ljaz Butt says tour conditions state that practice on the SCG under lights was possible. The Pakistanis are

without experience under lights and their fast medium bowler Sarfraz Nawaz withdrew from

Tuesday night's game against cent.

agreed that the centre wicket area at the ground would be totally rebuilt. Work would start as soon as possible after January 24. The project, to be carried out over two years, includes the installation of underground heating, he said. Mr Jacobs said the VCA would recommend to the Australian Cricket Roard that the



Jubilation turns to anguish as Paul Allott sees Tavare. one of England's finest slip fielders, drop a catch given by Gavaskar

It has been one of the sadder aspects of this tour that Tavare, probably the finest slip fieldsman in English cricket, some times has been less than sure of himself in the field on this tour.

Alderman fights losing battle

With Alderman unlikely to play tomorrow, the decision facing the Australian selectors is the choice at No.3 between John Dyson, a success with his 126 in the drawn second Test against West Indies and the New South Wales captain Rick McCosker. McCosker has accumulated 770 runs from eight first class and

runs from eight first class and one-day matches with an average of 154 and loves the SCG.

The likely Australian team in batting order, is:
G. M. Wood, B. M. Land, J. Dyson or R. B. McCowler, G. S. Chappel, K. J. Huges, A. R. Border, R. W. Mersh, G. F. Laweon, D. K. Likes, M. F. Maione, J. R. Thomson, T. M. Aldermart.

Michael Holding, the West

Michael Holding, the West Indies fast bowler, today said he would have to undergo knee surgery immediately after the third Test against Australia which begins in Adelaide on January 30. Holding has taken 22 Australian wickets at a cost of 12 runs in two one-day matches and two Tests despite the injury. Medical estimates say it reduces his bowling capacity to 80 per cent.

and jerked his thumb towards the pavilion in Roy's face, a boorish and unnecessary gesture irres-pective of bow clated the bowler felt.

Vengsarkar had scored two when he played defensively aginst Allott and the ball flew from high on the bat to Gooch at third slip. Gooch dived forward and the ball seemed to bounce from his hands as his elbows hit the ground. By lunch India were

returned after lunch. He played back to a ball that left him late and turned to walk away before the catch reached Taylor. He had been in 135 minutes and though the scorebook bardly reflects it, he had played a fine innings of its sort.

Viswamain was almost caught at short square leg as he fended off his first ball from Willis. It was III this point that Vengsarkar, who had hit hard from the start even if often direct to a fieldsman, launched into the day's only aggressive sequence of hitting, taking 18 from the five halls of an over by Botham.

The last four successive fours

halls of an over by Botham.

The last four successive fours came with two offside drives, followed by an on-drive and then another boundary edged through the slips, and finally a square cut for two. When Vengsarkar reached 51 out of 74 scored while he was in, he had faced only 53 balls and hir nine-fours.

India after lunch scored 50 in 10 overs. After this Underwood and Allort imposed a brake and India were only 141 for two at tea, with 33 runs coming in the hour before the interval.

tea, with 33 runs coming in the hour before the interval.

England has cause to feel pleased with themselves that they had restricted the scoring rate when India might have wrested the initiative, and the pattern did not alter much in the final 90 minutes. Vengsarkar had reached 71 when he was injured the

minutes. Vengsarkar had reached 711 when he was injured, the mishap bringing a halt to an impressive display.

Viswanath came through an unsentled start and drove and hit to the legside with some typically wristy strokes, but neither he nor Yashpal Sharma took any risks. Overall, it has to be considered India's day, but what a different story it might have different story it might have

BOWLING (to date): Willia, 13-7-25-1 Bothum, 13-6-30-0; Dilley, 12-2-33-1; Alloit 18-3-50-0: Underwood, 10-3-3-0. BNGLAND: G A Gooch, C J Tavarii, *K W R Fistcher, D I Gower, I T Rotham, M W Gatting, G R Dilley, † R W Taylor, D Underwood, P J W Alloit, R G D Willia.

Spectacular century by Miss Alderman

Auckland, Jan 13. — A fine century by Denisa Alderman, sister of Terry Alderman, led Australia to victory by 138 runs over the provincial New Zealand team North Shore in the women's World Cup today.

Miss Alderman's 117 included sight fours and took 130 minutes.

Miss Alderman's 117 included eight fours and took 130 minutes. Australia made 234 and North Shore managed only 96 in reply. A much improved Indian side, after losing to England yesterday, had a comfortable victory by 146 runs against Auckland, their batting skills and quick running between wickets helping them to amass 262 runs for six wickets. Anckland mustered just 116. SCORES inda 262 to 6 ft thaises 73; G Barorise 56; 8 Kushard 56; 8 Gacrist 3 to 27k Anckland 18 ft. Signatured 25 to 27k Newton 12 ft. Signatured 25 to 27k Newton 25 to 23k Newton 26 ft. Misses 24 ft. Adorson 11; E Baction 2 to 23k Newton 596 ft. Misses 47; 1 Factor 3 to 330.— Heater.

Perryman moves

Warwickshire's seam bowler Steve Perryman has joined Worcestershire in their second

afternoons

By John Hennessy

Ski Sunday, as its title implies, is the book of the film, the television film with which the BBC has this winter provided a delicious sporting paradox. At a time when the country has been dislocated by almost unprecedented falls of snow and transformed into a winter wonderland for properly equipped skiers, the television producers have had to cope with races abandoned because of too little snow, because of too much snow, snow, because of too much snow, or because of the right amount of snow, either lost in a fog or disintegrating under persistent

his after ego, has succeeded in assembling an informative and attractive book on the BBC's behalf.

He has recruited a formidable team, not only of journalists but also of racers, among them Ken Read, a Canadian as articulate as he is courageous; Divina Galica, a heroine of yesteryear in British colours, and Kourad Bartelski, Samesi historial makes

heroine of yesteryear in British colours, and Kourad Bartelski, 'Samuel himself makes a number of telling contributions, as befits a man who is, arguably (and he would relish the argument) the leading exponent in the field in this country. Dure I suggest that his telling should extend to teaching the BBC reporters the facts of Alpine life? They seem unaware of the fact that, although the world championships as such are held every four years, the Winter Clympics serve the same purpose. To us, the holder of the women's world championship giant slalom is not Maria Epple, nor Josef Walcher the holder of the men's downhill, as the BBC have recently misinformed us. True, they won their events in Garmisch in 1978, but the titles passed to Haomi Wenzel and Leonbard Stock at the Lake Placid Olympics of 1980. The book, however, is free of solecisms and should prove a casy companion on the Sunday afternoons ahead. It is published by the BBC at £4.50.

Gaye Chance on favourable mark for Schweppes Trophy

decision."
David Elsworth's Champion
Hurdle hope, Heighlin, comes
next in the handicap with 11st
12lb. However, the Hampshire
trainer also has Walnut Wonder,
British Crown and Remezzo
engaged in the race. "I'm not
sure how many I'll run at
present" said Elsworth, "I know
Remezzo has not run since next in the handicap with the lampshire trainer also has Walnut Wonder, British Crown and Remezzo engaged in the race. "I'm not sure how many I'll run at present" said Elsworth, "I know Remezzo has not run since November 1980 when he finished third to Sea Pigeon and Celtic Rade at Sandown, With 981 illb he's reasonably treated, just on that form, He's very well and if there is a break in the weather I intend to run him in the Lanzarote Hurdle at Kempton." Walnot Wonder and Remezzo will probably be the pick of the Elsworth quartet.

Of the rest of the division that the language of the landicapper.

Donegal Prince is a useful staye on the fiat, who won three novice hurdles for Paul Kelleway last season, and Lumen is in many ways an ideal type for the Schweppes. He has a light weight and stays two and a half miles. The open nature of the race is reflected in the betting. Ladbroke's makes The Tsarevich their favourite at 12-1, William Hill have Ekbalco as their first choice at 14-1 and the Tote have Ekbalco and Mr Moonraker present" said Elsworth, "I know Remezzo has not run since November 1930 when he finished third to Sea Pigeon and Celtic Rule at Sandown, With 9st 11lb he's reasonably treated, just on that form, He's very well and if there is a break in the weather I intend to run him in the Lanzarote Hurdle at Kempton." Walmut Wonder and Remezzo will Walnut Wonder and Remezzo will probably be the pick of the Elsworth quartet.

The publication of the weights for the Schweppes Gold Trophy yesterday provided a welcome relief from the boredom of their store the boredom of their store the boredom of their sponsorship Schweppes have raised their contribution to this always competitive handicap to £12,000 of the £25,000 in added money. For the first time in the history of the race there will be no penalties for subsequent winners and once again an enthralling contest seems assured at Newbery on February 13.

Due to the furious gallop at which the race is run and the large number of competitors that take part, the Schweppes generally falls to a horse carrying a light weight. In fact, only three horses have carried over 11st to victory. Le Vermontois in 1966, Persian War in 1963 and Within the Law in 1979.

This year Sea Pigeon had been allotted pride of place with 12st 18th; the same weight as carried by Persian War in 1963 and within the Law in 1979.

This year Sea Pigeon had been allotted pride of place with 12st 18th; the same weight as carried by Persian War in 1963 and within the Law in 1979.

This year Sea Pigeon had been allotted pride of place with 12st 18th; the same weight as carried by Persian War in 1963 and within the Law in 1979.

This year Sea Pigeon had been allotted pride of place with 12st 18th; the same weight as carried by Persian War in 1963 and within the Law in 1979.

The horse is very fit as we have been able to take him to the consist of the Champion start have been able to take him to the consist of the Champion furdle at Chelten-hand and the Champion start have been able to take him to the consist of the Champion start have been able to take him to the consist of the Champion progressive young horse whose victories last year included the consist of the Champion furdle hope, Heighlin, comes next in the headicap with 11st 18th the same provided in the reconstruction of running. Mr decision.

David Elsworth's Champion thurfle in the handicap with 11st 18th the same present and we have every intention of running. Mr de

Mercy Rimell: considers

bracketed together at the same frist too early to consider compiling a short list, particularly as the plans for the several trish raiders are as yet unknown. But if my life depended on it Gaye Chance must represent the best each-way value at the 16-1 which is generally on offer.

which is generally on offer,
weights see Popen 12-12-0. Cellic Ryde
7-11-13, Heightin 6-11-12, Pollarchiose,
7-11-13, Heightin 6-11-12, Pollarchiose,
7-11-8, Ebeledo 6-11-7, Birds Nest 12-11-6,
Consaught Ranger 6-11-15, Caye Chance
7-17-4, Starton 6-11-4, Prince Rowan 6-11-7,
Pollato Merchant 7-11-0, Ne Bombs 7-11-0, Sey,
George 6-10-13, Pagatherio 6-10-13, For
Auchon 6-10-12, Fane Renger 5-10-11, Anchret
Story 6-10-11, Badsworth 80y 7-04-10,
Staplestown 7-10-9, Sea Image 7-10-7, Hanners
Flame 6-10-6, Kolmé 5-10-5, Defersobert
6-10-4, Donagul Prince 6-10-4, Lumen 7-10-4,
Ra Tagus 5-10-3, Beetlaces 8-10-3, Mr.
Representies 8-10-2, Ecpario 7-10-0, The
Tastovich 6-8-10, Grey Jacie 8-9-11, Remerza,
8-9-11, Hopetal Stort 5-9-11, British Crown
6-9-10, Apple Wirm 5-2-9, Crumburn 5-9-3, High
Old Time 6-9-9, Everett 7-9-8, Homeson 5-9-7,
York Cortage 8-9-7, Laska Ploke 6-9-7, Hever
7-9-7, Dukanner 9-9-8, Mregate 9-9-5, Weiland
Wonder 7-9-5, Fledipe 5-9-4, Kahrdissin Ceale
6-8-4, He Ride 9-9-4, Majan 7-9-4.

Little hope for Ascot

Hopes for a resumption of racing on Saturday are bleak. Already, tomorrow's three meetings at Ascot. Towcester and Hereford (called off on Tuesday) have been cancelled because of deep snow, and prospects have not improved for the weekend.

At Ascot, where the Lambert and Butler Steeplechase final was due to take place, the clerk of the and Butler Steeplechase final was due to take place, the clerk of the course, Captain Nick Beaumont, said: "Unless there is a remark-able change in the weather, the situation for Saturday looks hopeless." The stewards will inspect the course at 11 am

At Market Rasen the cierk of the course, John Lucas, said "it doesn't look too good" and at Newcastle there are snow drifts of up to four feet on the course and 16 degrees of frost. There

WILLIAM HILL, LINCOLM HANDICAP—
(1st scoopbort: Doncaster Seturday Morch 27
1st atraighd, Saver Sesson, Home Coming, Engul, Cragador, Buta Bula, Morayshra, Steepte Bell, Bunter, Glyndobourne, Paulager, Prastorian (Suard, Salas Star Key, Tegemeork, Pratorian (Suard, Salas Star Key, Tegeneork, Paterno, Bestrupt, Diston Wood, Hanoc, Bezzarde Bay, Lulav, Cyprus Sky, Tugotlove, Herbe Outylo, Soven Hearta, Jashabad, Social, Up, On Edge, Stepty S Kright, Redden, Laske, Floko, Santallan, King's Glory, Barocco, Hilledown Cold, Secret Gill, Icon, Hanon Cool, Jondale, Danning Devil, Polly's Brother, Fandangle, Bold Image, Winerl, Christmen, Fernburgh, Mylaysiste Nerse, Molon Luve, African Penri, Belland, Redden, Fighty Friend

Uncle Bing's Aintree aim

Uncle Bing, who won the Topham Trophy two seasons ago, has been entered for the Grand National and his trainer, Richard Head, helieves he could be the first 13-year old, since Sergeant Murphy in 1923, to lift the great age.

Murphy in 1923, to lift the greatrace.

Uncle Bing was getting near in
race fitness before the freeze-up
and Head's concern about this
spectacular jumper is the limited
time before the National. "It's
increasingly difficult to plan a
comeback race, but his larges a
definitely Liverpool", he said.
His stable companion Border
Incident is likely to ron in
Doncaster's Great Yorkshire
Steeplechase in which he has
been given 10st 10th.

Growing benefits from strong sponsorship

Hunt racing is leaping ahead

Of the 139 hunter steeple-chases scheduled for this season, which starts on February 1, the prize money for 39 is being donated wholly, or in part, by sponsors. These 39 include 14 qualifying races for the Land Rover Champion Hunter Steeplechase at Chekenham on May 5. Land Rover Distributors have given £5,000 of the £6,000 added money for this final, but the 14 qualifying hunter steeplechases are each individually sponsored by different firms, 10 of which are putting up the entire prize money for the races named after them.

The coveted Foxhunter Steeplechases, at Chekenham and

them. The coveted Foxhunter
Steeplechases, at Cheltenham and
Liverpool, are again spousored
by Christies Ltd (Fine Art
auctioneers) and Haig Whisky
respectively, while Horse and
Hound is continuing its longstanding spousorship of the Final
Champion Hunters' Steeplechase
for the Horse and Hound Cup at
Stratford on June 5, the last day
of the season.

Stratford on June 5, the last day of the season.

The TKM Group is this year the joint spousor, with Christies South Kensington Ltd, of the gentlemen's and ladies' championships at Chepstow on May 12, for which horses qualify by finishing first or second in selected men's and women's open faces at point-to-point meetings. all over the country,

Ready Mixed Concrete, which sponsors several novice hunter steeplechases under rules, recently announced the launching of a new RMC Group Magnum Champiouship for the 1982 point to point season. It will present a magnum of champagne and a trophy to the winning riders to two selected races (generally opens) at 28 point-to-point meetings, and £50 to each of the bost hunts, a particularly well-come feature.

Horses finishing in the first with £5,000 added to stakes, will also be run on May 31, at score points to carry forward to

the championship final at the Point-to-Point Owners' Association meeting, which is also being sponsored entirely by Ready Mixed Concrete, at Kingston. Blount on May 6.

The Sean Graham organization, a big sponsored May 6.

a big sponsor of National Hunt racing, has agreed to continue its point-to-point area novice cham-pionships in 1982. In each of the 14 regions the owner of the leading five, six or seven-year-old horse will receive an engraved Stuart crystal bowl and a cash award and there will also be award, and there will also be r-up awards.

An interesting new hunt racing sponsor this year is Sametrac, the distribution company for SAME, an old established Italian SAME, an old established Italian private company which is the sixth largest manufacturer of tractors in the Western world. Sametrac is sponsoring 28 point-to-point races, each with £150 prize money (the maximum permitted) and trophies. The Italian firm is also contributing £2,250 towards the £4,000 prize money for the SAME Tractors hunter steeplechase at Stratford on May 21. on May 21.

Vaux Breweries are again sponsoring a Northern point-to-point championship and have donated half the added money for consted hair the acced money for the final, a three-mile hunter steeplechase at Sedgefield on May 28. To qualify horses must have won or been placed in a Vsux or Swallow Hotels restric-ted open race at specified Northern point-to-point meet-mes.

maidens (point-to-point races included) at the start of the season, but must have won or been placed in one of 40 specified-point-to-point maiden races ruh before May 9.

The conditions for another

novice championship, sponsored by Jackson-Stops and Staff, are unusual in that the horses eligible have already qualified by having won or been placed in one of the qualifying races run in the 1981 season. The final will be decided at Towcester on Easter Saturday.

As well as the Christies-TKM series, women riders have a second point-to-point championwilson, the final of which takes place at the Melton Hunt Club meeting at Garthorpe on May 22.

In the South Middlands point to the state of the Melton Hunt Club meeting at Garthorpe on May 22. point area the champagne farm, Taittinger, is again sponsoring three championships with 4 points system of scoring. The leading owner, leading lady rider and leading gentleman rider will each win a case of Taittinger champagne, and there will be bottles for those finishing second

bottles for those finishing second and third in each category. These prizes will be awarded at the final meeting of the area at Kingston Blount on May 13.

The point-to-point owners association recently amounced that the amount of sponsoring available for the sport in 1982 is nearly double that of last season. This is most gratifying at a time when much sporting sponsorship when much sporting sponsorship has been withdrawn owing to the

economic climate.

Nor is it only the sport and hunts that benefit. As a result of its highly successful point-to-point in 1981, the Association is presenting £2.500 to the Injured Jockeys fund, £1.250 to the Hunt Servants' Benefit society, £1.250 to the Paraplegic Sports Society and £500 to the Imperial Cancer Research fund.

Ian Reid

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Salmon leap but the rents stay low

By Conrad Voss Bark Fishing Correspondent It would be a foolish man who

It would be a foolish man who would make any forecasts as to what the salmon season is likely to be this spring but the odds are, to judge from the amount of snow on the hills, that it could be a lot better than last. Pessimists might well say it could hardly be worse, but let that pass.

One encouraging sign is that from the reports coming in, and in spite of double-figure inflation, rents of the best beats are being held remarkably low.

Strutt and Parker, have the opening four weeks of the season to let on the Easter Elchies bear of the Spey, one of the best on the river, with two gillies yrovided, for four rods. The fishing in February costs £11.50 a day for each rod and in March £17.50, both figures including VAI.

Tenants stay at the Condant

VAT. Tenants stay at the Gordon Arms Hotel at Fochabers, which costs £140 for the week, including VAT. Easter Elchies

can produce some very heavy springers when conditions are right. The Craigellachie Hotel also has good water on the Spey, which gave 263 fish last year to hotel guests.

It is interesting that good trout fishing on the Test costs considerably more nowadays than a good salmon beat in northern Scotland, though of course transport (£70 worth of petrol) and hotel costs tip the balance.

Buying good salmon and sea trout fishing is another matter. Savills of York say that even in these recessionay days the demand still exceeds the supply. Little Black Hall at Bandiory on the Dee sold at £1,800 per fish for double bank fishing. Culter, an early spring best on the Dee, made £1,700 a fish. The Carham beat on the Tweed, again double bank, went for the same figure. A Sutherland spate river, the Dionard, made E300,000 plus for six and a half miles, including 4,000 acres of hill ground and a

lodge, which Savills work out at approximately £500 per sea trout and £1,500 per salmon.

At the other end of the scale there is some requirement fly At the other end of the scale there is some very pleasant fly fishing for loch trout from Triroran House on the island of Mull, which is merely £1 or so a day, a bit more for the sea trout in the sea pools.

For students on grants there is still free sea trout fishing to be kindly from a rewarding adventure for the young and strong who carry a rod and a few flies in their packs. Salmon, no, but sea trout taste as good, especially trout taste as good, especially cooked over a driftwood fire of

No cross-country...

Warsaw, Jan 13. — The Polish Athletic Association have decided not to stage this year's world cross-country champiouships scheduled for March 21 m Warsaw, the Polish news agency PAP reported today. — Reuser.

Scotland reap the rewards of Campbell's emphasis on the mental approach

Thinking man's guide to better badminton

Scotland's arrival at the scottand's arrival at the penultimate stage of competition in the European zone of the Thomas Cup has caused eye-brows to be raised throughout the Eritish badminton com-

Australian Cricket Board that the fifth and final World Series Cup match — scheduled for February 7 if required to decide the series — be played at another ground. The decision to rebuild the pitch

is the result of continued criticism over its unevenness and

damp spots. Chappell and Lloyd have both complained that the wicket is dangerous.— Reuter.

Kent have ordered a £6,500 "whale" water-clearing machine. Kent were impressed when Surrey Jent them their "whale"

last season and are currently trying to buy a trailer so the machine can be transported around their cricket grounds.

Kent splash out

On January 25 and 26, in the On January 25 and 26, in the rather unlikely setting of the sports centre at Grangemouth, the oil port at the head of the Firth of Forth, Scotland will play Denmark in a semi-final match which will do much to prove (or otherwise) that the game north of the border has come of age.

The Scots have long had a reputation for playing excellent football, fair Rugby, and passable golf. They have also had a reputation for playing deplorably poor badminton, a fact underlined by the appalling record of more than 50 consecutive defeats against England, without a single victory since the series began in the 1920s.

Two years ago the Scottish Badminton Union, understandably fed up with the situation, launched a five-year plan to increase interest and enthusiasm, and to raise the standard of play at all levels, but especially at the top.

one of their early moves was to appoint the union's first full-time coach, whose job was to coordinate and oversee coaching. at club level and to bring the national squad through to the stage where they could compete on reasonably even terms with other leading badminton-playing

Allan Campbell, a 35-year-old Glasgow University history and economics graduate and a teacher of history and modern studies at a Dunbartonshire school, did at a Dundartonshire school, did not expect such quick success when he was selected from duzens of applications for this unenviable task. During inter-views he had stressed to the union what they already knew; that a minor sport which had languished for most of the century could not be rescued in five minutes.

He was nervous before the Thomas Cup quarter-final tie in the Netherlands. The Dutch are more than competent on court, and when Scotland arrived they victory in the Netherlands.



Campbell: the thinker

faced a side who had already beaten West Germany and Austria away. Campbell expected the match to be close, but was secretly afraid that there might be a collapse of the type which gave England a 7-0 win in the annual fixture in November.

Instead the Scots startled the Dutch and the badminton world by taking the tie 9-0 in their most harles and pass it on to the players, the Danes will recross the Morth Sea knowing at least that they have had to fight and with a new respect for Scottish badminton.

Although Campbell believes in physical fitness, the honing of technical skills and plenty of match practice, he is certain that

Campbell's main hobby at school and university was music: teampates, they are as good as a point or two ahead before the musician and he played the violin and led the university orchestra. He hardly knew what a badmin-ton racket was until his last year at Glasgow, when he took up the game to get some exercise. Soon after he left university, however, he was asked to help to coach some youngsters and agreed to have a go.

"So there I was, never having played the game properly, telline.

played the game properly, telling others how to do it", he said. "Some would see that as a big disadvantage, almost an impertinence, but honestly I didn't find it a handicap.

"It made me think much more about the game. And that's one

"It made me think much more about the game. And that's one of our problems. Not enough players think deeply about what they are doing. They have lots of ability and are very fit, but they just go out there and hit the shuttle."

shuttle."

A big problem Campbell has faced since his appointment is the reluctance of many players in Scotland to accept coaching as an integral part of the game. He said: "The very best, like Billy Gilliand and Dan Travers, know the real value of good coaching, but too many don't and don't want to. That outlook is changing, but it will take time to filter through.

Campbell is concerned about

Campbell is concerned about the difficulty of retaining indi-viduality among his best players (including the women, and not just the Thomas Cup team) but at just the Thomas Cup team) but at the same time encouraging them to support each other.

"In this respect Scottish badminton sides are the same as Scottish soccer sides", he said. "They contain some of the best individual players in the British Isles, but all too often they fail to combine well as a team. I am trying to stop my players having doubts about themselves and each other.

other.
"Believe me, it's not easy because no one has ever done this before, but I am developing this before, but I am developing the team approach slowly and at the same time getting rid of players' insistence that they are the underdogs. If they go on court confident in their own

المكذا من الأصل

Campbell, who has held the coaching job for 15 months, spent much of a busy 1981 in

Alderman:

research and study. He said: "It has become obvious to me that there is a great deal of stress in badminton in Scotland, especially inton in Scotland, especially badminton in Scotland, especially in two areas.

"First, the highly ranked player who has become accepted as the best in Scotland or in a district can suddenly be besten and the shock can be considerable. This can lead to a situation which the player finds difficult to control or even accept, which in turn leads to stress, poorer

turn leads to stress, poorer performances and still more

"Second, the very young player who is beginning to make an impression at national level often feels he is playing for his coach or his parents and is afraid of letting them down by lozing. This fear leads to a build-up of stress, which again affects performances and produces the very thing the youngster wanted, to avoid."

Campbell believes there are six Campbell believes there are six ways to help to reduce stress, be better prepared for competition, and win matches: the deliberate

introduction of elements such as noise, had line calls and cheating during practice sessions; the use of physical relaxation techniques; of physical relaxation techniques; stress management training; imagery or mental rehearsal; constantly reminding oneself of one's ability rather than inability, and satisfying psychological needs, such as carrying a mascot. He does not suggest that the player with no basic ability will player with no basic ability will ever reach competition, let alone international level, by changing his mental approach. What he does say, with increasing convic-tion, is that those who are good can become even better if they learn how to link the physical with the mental This way not he with the mental. This may not be enough to see Scotland through against the powerful Danes, but it does look like being the start of a new era in Scottish-badminton.

Iain Mackenzie

Worcestershire in their second change of players between the neighbouring counties this winter. Jim Cumbes recently moved in the opposite direction to Edgbaston. Perryman, aged 26, took 309 first class wickets for Warwickshire, with a best-eyer season haul of 73 when he was capped in 1977.

Middlesex have appointed Alan Wright as club secretary, Wright, 43, has been a Middlesex member since 1975. He will be leaving his job as passenger marketing manager for British Airways, where he has worked for 27 years.

absence is good news for Pakistan.

Book review

Companion for Sunday

Somehow, though, they have been able to assemble an informative and attractive programme, just as John Samuel sports editor of the Guardian, in his alter ego, bus succeeded in

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also on page 20

John Woodcock's Letter from Australia

Rivalries in the market place

فكذا من الاصل

When the Wallabies rugby union team returned to Australia today after their tour of the British Isles they faced a barrage of questions aimed at uncovering the division which had been reported to have existed between Queenslanders in the party those from New South Wales. Needless to say, their ranks were closed. In many ways, though, inter-state rivalries are as essential a part of life in Australia as those in England between the red rose and the

Whether this manifested itself Whether this manifested itself during the Wallabies tour and undermined their play, I have no idea. What may be of some general interest in England is the battle that is forever being fought in Australia for the footballing market.

In Victoria the game of Australian Rules, a spectacular exercise in kicking and marking, dwarfs all else. It resembles Gaelic football more than any of the other codes, probably because of the Irish influence that was prevalent in the goldmining areas of Victoria in the middle of the last century.

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The two high days of the Australian sporting calendar — unless a Test series against England or West Indies is reaching an exciting climax — are the last Saturday in September which is set aside for the Grand Final of the Victorian Football League played, like the FA cur League played, like the FA cup final, before 100,000 people on the Melbourne cricket ground, and the first Tuesday in Novemb-cr when the Melbourne Cup is

In Western Australia, South Australia and Tasmania, as in Victoria, for every boy who plays Rugby Union twenty play Australian Rules. Of Rugby League, in these same four states, there is virtually none — no more than in Corawall or Keut.

Corawall or Keut.

New South Wales is the chief stronghold of Rugby League and Queensland of Rugby Union. Just as in Melbourne the sports pages are taken over during the football season by Australian Rules. In Sydney the headlines are made by Rugby League and in Brisbaue by Rugby Union.

Considering how little Rugby Union is played in the country, it seems remarkable that Australia can give the All Blacks a game,

seems remarkable that Australia can give the All Blacks a game, let alone beat them, and come as near as they did to carrying off the Grand Slam in Britain. All they needed, as I understand it, was someone to kick them some

The game I have not mentioned, but whose spread is as inevitable as in most other countries of the world, is soccer, under the immigrant influence, which until recently has been with the property specially soccer, when its property special soccer. mainly European; soccer, even in Australia, is now played, or played at, more extensively than any of the other types of football.

Parents, deterred by sports in which body contact plays a larger part, are coming round to favouring Association Football in the cities, only a lack of grounds is preventing it from taking a more rapid hold. For



An Antipodean version of Gaelic football, Australian Rules, is a spectacular and often violent game. This vociferous player makes the use of his lanky opponent's shoulder to reach for the ball.

ing of a soccer branch.

Despite that, if is catching on, especially in Melbourne, a city with a large Greek-speaking community. And Greeks love their football. When later today I take this message to the cable office, the chances of my getting a native Australian as a taxi driver will be something like four to one against. Yesterday I was taken to the Sydney cricket ground by a Lebanese and brought back by a Hungarian. From the sirport the day before my driver was from Sumatra. One of the advantages of soccer is that it is a language they can all understand.

In Sydney at the moment are two officials of the Victorian Football-League-who have come here to make arrangements for

fear of competition, Rules, members of the VFL, to play League and Union clubs do nothing to encourage the opening of a soccer branch.

March on the Sydney cricket

It is a move that has met with strong resistance, not only from the older members of South Melbourne, but from the devotees of Rugby League and Rugby Union in Sydney. If it is a success the same thing may be tried on the Woolloongabba Ground where the Testa are Ground where the Tests are played in Brisbane.

The purpose is threefold, to spread the gospel of Australian Rules, resist the advancing tide of soccer and improve South Melbourne's financial position. It Melbourne's financial position. It is hoped that there may eventually be enough expatriate Victorians living in Sydney — and one day in Brisbane — to start clubs of their own. As for the members of South Melbourne they will be able to watch their "home"

Among the players of team games, the best paid in Australia are the top cricketers, who, while they keep their place in the Test side, may earn £50,000 a year, and probably more. From the testimonial which he is now having, Dennis Lillea is expected to collect £250,000.

to collect £250,000.

Australian Rules footballers — a dozen or so of them in Melbourne — come next with around £30,000, and they mostly have other jobs as well. Rugby League would follow them, much of the revenue here coming from the phenomenal popularity of poker machines.

Of the Wallabies who landed in Sydney this morning, some will soon be induced to switch to Rugby League, a dequading of the rapks which happens annually, and makes Australia's success in the rugby union world all the more commendable.

Law Report January 14 1982 Court of Appeal

Rules in Act supersede bill of lading

The Morviken

Before Lord Denning, Master of the Rolls, Lord Justice Shaw and Lord Justice Ackner

Judgment delivered January 13] In all courts of the United In all courts of the United Kingdom, the Hague-Visby Rules had coercive force of law by section 1(2) of the Carriage of Goods by Sea Act 1971 and had supremacy over every other provision of the bill of lading.
Section 1 of the 1971 Act provides: "(2) The provisions of the rules, as set out in the schedule to this Act, shall have the force of law."

The Court of Appeal in reserved judgments allowed an appeal by plaintiffs, the owners of cargo lately laden on board the ship Morviken, against Mr Justice Sheen's order of Juno 26, 1980 (1981) 2 Lloyd's Rep 61) that all further proceedings in their Admiralty action grainst the owners of the ship Hollandia be stayed.

be stayed.

The cargo owners claimed damages for breach of contract and for negligence in and about the loading, handling, custody, care and discharge of the plaintiffs' cargo and its carriage on board the Morviken in 1978. be stayed. Leave to appeal to the House of Lords was granted.

Article X of the rules in the schedule of the 1971 Act provides: "The provisions of these rules shall apply to every bill of lading relating to the carriage of goods between ports in different states if: (a) the bill of lading is issued in a of lading is issued in a contracting state, or (b) the carriage is from a port in a contracting state... whatever contracting state... whatever may be the nationality of the ship, the carrier, the shipper, the consignee, or any other inter-

Mr John Hobhouse, QC and Mr Michael Dean, QC for the plaintiff cargo owners; Mr Johan Steyn, QC and Mr Angus Glennie

Lord Lane, Lord Chief Justice, in the Court of Appeal (Criminal Division) on January 12 handed

down a practice direction which he had given at the request of Lord Hailsham of St Marylebone,

Lord Chancellor. The practice direction, which concerned the mode of addressing circuit

indges, recorders, deputy circuit judges and assistant recorders and the titles to be used on cause lists, forms and orders from

1 The following judges, when sitting in court, should be addressed as "My Lord" or "My Lady", as the case may be, whatever their personal status:

(a) any circuit judge sitting as a judge of the High Court under section 9(1) of the Supreme Court Act 1981; (b) any judge sitting at the Central Criminal Court (c) any circuit judge who

Court; (c) any circuit judge who holds the office of honorary

Recorder of Liverpool or honor-

Practice Direction

January 1, stated:

carriage to Bonaire in the Dutch West Indies. It was loaded on a Dutch vessel for carriage to Amsterdam where it was transhipped to a Norwegian ship, the Morviken, for carriage to Bonaire, where on being discharged it was dropped on to the quay and damaged to an amount put at about £22,000.

on to the quay and damaged to an amount put at about £22,000. Following the arrest of the shipowners' vessel, the Hollandia, in a United Kingdom port, the cargo owners sued the shipowners for damages. The Hollandia was released and the action by the cargo owners against the shipowners proceeded.

There was a clause in the bill of lading which said that it was governed by Dutch law and that any action was to brought in the courts of Amsterdam. The courts of Goods by Sea Act 1971 under which the limit of liability for the machine was £11,491.

The courts of Amsterdam. The courts of Amsterdam the Bullet and the Cartiage of Goods by Sea Act 1971 under which the limit of liability for the machine was £11,491.

machine was £11,491.

The courts of Amsterdam applied the old Hague Rules under which the limit of the liability for the machine was about £250. So if the action were stayed, it would not be worth while for the cargo owners to sue in the Amsterdam courts.

The judge ordered a stay saying that the cargo owners were bound by the clause in the bill of lading and could not sue here. The carriers said that under English law that clause was pull and rold.

was null and void.

If the action had arisen before the 1971 Act came into force, English courts would have given effect to the clause in the bill of lading. But the case arose under the 1971 Act.

In the interests of international trade it was very desirable that all international carriage of goods should be subject to the same terms and conditions. The

indees and assistant recorders

should be addressed as "Your

Honour" when sitting in court.

3 In cause lists, forms and orders

members of the judiciary should be described of follows: (a) circuit judges, as "His (or Her) Honour Judge A" (when the judge is sitting as a judge of the High Court under section 9(1) of the Surremé Court Act 1981, the

the Supreme Court Act 1981, the

the Supreme Court Act 1981, the words "sitting as a judge of the High Court" should be added; (b) recorders, as "Mr (or Mrs) Recorder B". This style is appropriate irrespective of any honour or title which the recorder might possess, but if in any case it is desired to include an honour or title, the alternative description "Sir CD. Recorder"

title) GH, sitting as an assistant

Mode of addressing

ary Recorder of Manchester.

2 Subject to paragraph 1, circuit judges, recorders, deputy circuit (1435) is hereby revoked.

judges in court

But the Hague-Visby Rules had not yet been implemented in

Holland.
The 1971 Act made far-reaching

The 1971 Act made far-reaching reforms. By section 1 (2) the rules set out in the schedule had the force of law. That meant that in all courts of the United Kingdom, the provisions of the rules were to be given the coercive force of law and were to be given supremacy over every other provision of the bill of lading.

There was to be no contracting-out of the rules. Notwithstanding any clause in the bill of lading to the contrary, the provision of the rules were to be paramount.

There was a parallel in European Community law. Whenever there was a conflict or inconsistency between the law in any article of the EEC Treaty, and the internal law of the member state, the law of the community prevailed: see Nation of

Article X of the rules in the Article X of the rules in the 1971 Act gave far wider jurisdiction to the United Kingdom courts than did the 1924 Act. The article with the concluding words whatever may be the nationality of the ship, the carrier..." showed that the provisions of the Article III, rule 8 of the rules, which had been in the old Hague Rules, said that "any clause ...lessening...liability otherwise than as provided in these rules, shall be uull and void and of no effect". So in so far as clause 2.of the bill of lading which incorporated the Dutch law and the old Hague Rules and

The MASTER OF THE ROLLS said that in March 1978 an English company shipped at Leith in Scotland a big machine for use in road work. It was for carriage to Bonaire in the Dutch West Indies.

West Indies.

The Master OF THE ROLLS and the Carriage of Goods by Sea Act 1924 tried to get to the small amount in the old Hagne Rules was also null and void.

The limportance of maintaining freedom of contract had been urged. But there was a higher public policy to be considered—the public policy which demanded that in International trade all goods carried by sea trade all goods carried by sea should be subject to uniform rules governing the rights and liabilities, and the limitation of liability, of the parties. They should not vary according to the particular country or place where the dispute was tried.

clause 2 of the bill of lading was null and void in proceedings in the United Kingdom courts. The action should not be stayed the action should not be stayed but proceed with the limit of liability prescribed by the Hagne-Visby Rules.

The appeal should be allowed.

LORD JUSTICE SHAW, egreeing, said that the uniform application of the Hague-Visby Rules adopted by the 1971 Act was designed to provide a commercially equitable basis for determining the rights and liabilities of parties to mercantile transactions involving carriage of goods by sea. Contracting out, either direct or indirect, was inhibited by the objectives as well as by the terms of the Act and the protocol.

LORD JUSTICE ACKNER also agreeing, said that textbook writers differed as to whether the carrier could contract out of the rules scheduled to the 1971 Act by selecting some other law as the proper law of the contract. His Lordship concluded that since in the present case the bill of lading clearly feil within categories (a) and (b) of Article X the carrier was not entitled to contract out of the rules by selecting a law which did not administer those rules. Solicitors: Clyde & Co; Middle-

Off-premises reason for refusing licences valid

Justices could lawfully refuse to renew a dancing singing and music licence not because of any

mistr neence not occause of any misconduct in the management of the establishment but because of the behaviour of its customers when they had left the premises, Mr Justice Hodgson held in the Queen's Bench Division on January 11.

High Court" should be added);
(b) recorders, as "Mr (or Mrs)
Recorder B". This style is appropriate irrespective of any honour or title which the recorder might possess, but if in any case it is desired to include an honour or title, the alternative description "Sir CD, Recorder" may be used; (c) deputy circuit judges, as "His (or Her) Honour EF, sitting as a deputy circuit judge"; (d) assistant recorders, as "Mr (or Mrs, Miss or other title) GH, sitting as an assistant HIS LORDSHIP said that it had such a way as to cause a breach of the peace but that, however well run, the effect of extending the normal drinking hour of 11 pm in public houses to 1 am in

they had left the premises

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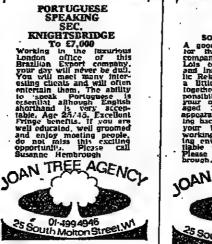
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Health authorities and ment perhaps as hospital open to graduates and regional health authorities and administrator or planning school leavers with A-level was introduced and it has been the subject of harsh ment level includes the Once the trainee gets the ment level includes the Once the trainee gets the

the bureaucracy by removing the area health authorities, of which there are 98 in England and Wales. Administrative jobs will certainly go, although the Government is not prepared to commit itself to a ligure, but once the initial upheaval and uncertainty is over there will in theory. from other parts of the public sector or from industry into specialist areas National Staff Committee such as personnel, purchase for Administrative and such as personnel, purchas for Administrative and ing, laundry or catering Clerical Staff. Hannibal

supheaval and uncertainty is over there will, in theory, be good career opportunities for skilled administrators, and the main is to put administrators. The main professional qualification for health service administrators and the one which trainees normally take as part of the national administrative scheme, is that offered by the Institute of Health Services, administrative training scheme. The main qualifications include a degree, two GCEs at A-level or being over 21 such as five GCE passes in with at least one year's service in the NHS or a related job.

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The usual path is from the MHS also takes the initial training period trainee accountants who into a junior management then go on to study for the post, such as assistant hospital examinations tem—comprising district team comprising district team comprising district the latter personnel officer, and of Public Finance and then into middle manage. Accountancy. The scheme is the ment ments ments as hospital to the professional examinations that the personnel officer, and of Public Finance and then into middle manage.

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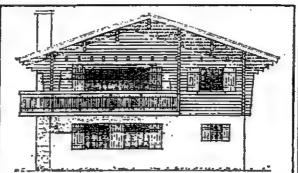
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BAILEY.—On 10th November, 1931 to Adgeta the Moulds and Simon—a ton Daniel Alex-	conditions the crametion pre- viously arranged for Yeomes 'inchonald at Perth, on Thurs- day, January 11th, will now take place at 11 d.m., Saurday, January 16th.	Courses and a
ander Louis. A brother for Burkeon (th Linuary, m Johannesburg to Eleanor thee Sean) and Houney	January 16th.	Verbier £
BUTTERWORTH Gr. January 4 to	MEMORIAL SERVICES BERRENS—1 Momorial Service of Thanksniving for the Bile of Cert Berens will be Bile of 12.00 noon on Wednesday 20th Jamair, 1982, at St. Michael's, Countill MAY—A Service B: memory of County May will be held Single, Survey, Gameta, Sander- February at noon, Patersoon—Thanks	Hotels and self-catering el
Joanne wife of John a Jong awareed son — wichael John Arion; a brother for Lucke and Mill.— The January Joth of St. Thomas Hospital to Hillary and Christopher, a son (Adrian	12.00 noon on Wednesday. 20th Salmary. 1982, at St. Michael's,	Gatwick. Glasgow and Manchesier Highis.
Thomas Hospital to Hillary and Christopher, a son (Adrian Hugh	Grenyth Mary May memory of at Ali Saints Courts Sender Strad. Surrey, on Friday Sth	BLADON LINES TRAVEL
Francisca (nee Williams, and Gordon, a son (Joshua Vichael Jann), a brother for Victoria.	PATERSON, The Manorial Service for James A Paterson will be held at St. James C. Chrombel's Chrombel	309 Brompton Read, London SW3 3DY. Tel: 01-381 4861. ATOL
Hugh: Hugh: Horsefeld.—On 9th January to Francisca (nee Williams, and Gordon, a son Joshua Vichael Jenn; a brother for Victoria. HUNTER —On January 12th at 27 Wilbert, St. to Rive (nee 13th Childropher Tempour). RIRK —On 10th January at Jahn Radelife, Oxford to John and Marce-Childropher, a son (Alexandre).	sind. Survey, on the Sander- February at noon. Friday, 5th. Paterson.—The Memorial Ser- vice for James A. Paterson will be held at St. James's Church. Piccadilly, London W1. on Tues- day. January 25th. 1982. at 11.50 a.m.	
Rick —On 10th January at John Radding, Oxford to John and Marco-Christine, a son (Alex- andre-Christine, a son (Alex-	IN MEMORYAN	AUSTRALIA/NZ Immediate seats available World's best atrimes at the than APEX large tup to 6
KNOX THEODOULOU.—On James ar: 8 at Queen Charlotte's Hospital, to Elizabeth and Rix mond—a son 1:th January at St Thomas Hospital, to Jenny (neo Actord) and Malcoim— Jaughter (Sonhie Longs). LONG Charlet January 10th, at Queen Charlet Shoppial, to Julia (new Hospital) and Charlet Shoppial, to Julia (new Hospital) and Charlet Shoppial, to Annie (new Thomer, and David — a daughter (Sarah Louise).	LANGLAROS GEORGE — Died January 14 1577. So beloved and so sady missed — Luz.	than APEX lares tup to 60 off economy fares: — SYDNEY—MELB'N—PER AUCK—WE'ION—CR'CI
LENNOX.—On 1:th January, at St Thomas' Hospital, to Jenny inco Actroyd and Malcolm— o daughter (Sophie Lories)	ANNOUNCEMENTS	ALSO: SPECIAL 1ST CLI FARES
Ource Charlotte's Hospital, to Julia there Wheaten) and Clif- ford—3 son (Alexander Lame).	IRRESISTABLE CARPETS from Resista See For Sale. CARPETS 48 Dr. Atting service. See Resista in For Sale. WOMEN DRIVERS Special Lloyd's Insurance. Northways 883 1210. ACRED Superior Algarve villa ACRED Superior Algarve See General Vals. NIKON TO NIGERIA 7 Fine photo- Staphic equipment specied. duly-free anywhere in the World, See Mr Wagner, Dixing.	REHO TRAVEL 15 New Oxford St. WCI Tel. 01-404 4944/405 89
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Gordon—1 son (Alexander	Smilar N. Wales flet, any time. 063 087 3277. 2 GIRLS to crew barge, S. France.	Save on scheduled air farer
MURDOCH.—On Jamary 10, to Sally (nee Campings) and Gordon—1 (all parts) and Gordon—1 (all parts) and Jamary 10, to Sally (nee Campings) and Rewman.— To Victoria (take Barrows) and Roger—1 daughter A: Queen Charipties Hospital on January ine 11th January in Crawley to Pamela (nee Husth) and Peter, a son (Alexander Francis), a brother for Emily. SCOTT.—On January 12-24 Peenburt to Georgina (nee Rowland) and John—6 daughter (Charlotte Elizabeth) sister to Victoria.	NIKON TO NIGERIA? Fine photo- graphic equipment speeded duly-free anywhere in the	Save on scheduled air fared JO'BURG. FIG. BUEN MONTEVIDEO. DAR SECURELLES. MAIURE TOKE SINGAPORE INSAKA. CANAL MANILA. BOMBA CANAL MONTE AUSTRALIA and European capitals and
ORWIN.—On 11th January in Crawier to Panela (nee Heath) and Peter, a son (Alexander	64, New Bond Street, W.1. Call in or ring 01-629 1711. ACCOUNTS SPECIALIST needed	MANILA, BOMBAY, CAL ROME, AUSTRALIA and European capitals.
SCOTT.—On January 12 at Penn- bur: to Georgina (nee Rew- land) and John—& daughter	Consultants.—See Rec Opps. AMERICAN Pluantial Magazine requires Advertising Salos per-	FLY FLAMINGO TRAVE 76 Shaftesbury Ave. W. 01-439 7751 2. Open Saturdays.
(Chartotte Elizabeth) sister to Victoria. On 11th January to Flora and Charles—a .second son (Bany).	NIKONE OF CHARLES AND	
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. WALLUAGES	CLUB ANNOUNCEMENT	Paria from from from from from from from from
LOWE: SERESFORD-PERSS.— de 14th January, 1942, Peter de Anne, at St. Michael's, Anwick, Present address Tamer- ton, Upton Lovell, Warminster.	ROYAL OVER-SEAS LEAGUE. Park Place, St. James's and also at 100 Princes St. Edin- burgh. The elegant conderence and banquet venues. Contact Banqueling Manager, 01-403	Amsterdam from £75 Brussels from £75
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Bestol 188 dome, Stockland, Bestol 188 domer Strockland, 188 for the Stockland, 188 for the Stockland, 188 for the Stockland 188 for	WANTED —Box for one day Reyal Ascot '82, with possibility of further single cars at other meetings. Please wind debuils to Box 1144 G. The Tires.	* SNOW * SNOW * SNO INSTANT SKING ALL DA
On January 12th, of 53 Sussex Square, London, W3, aged 78, after a year of liness, Cremation		INSTANT SKIING ALL DA Masses of burgains in variety of top resorts in ding Zermati, Verbier, Cacheval, Vai d'isser, in cha and self-calering, by air, drive, ceach or independitavel.
of 10 4.m. this Friday, at the West Loadon Crematorium, Cul flowers only, Inquiries; Kenyons 01.723 3277.	MAJOR COMPANY wishes to rent box at Ascot for Royal Ascot week 1982.—Please reply Box	drive, coach or independ travel. Call now for instant book
playth, PERCY WILLIAM.—Late of Hatton Gerden and Caterham. peacefully at home on January 11th. Private cremation, Family	ASCOT BOX WANTED to Rent, lease or buy.—Aprily Hawkiey, 411/Blackmore 253.	SKI WEST (0373) 864811 ABTA ATOL 1
peaceinthy at home on January 11th. Private crematida. Family BOSELEY.—On 7th January, 1982, peacefully in hospital. Eric slidgel of I Risaden Glock-House, Hawkhurst. Kent. both of husband of Pam Andrew Service at Goudhurst Catholic Church. Beresford Road on Friday. January 12th at 11 a.m. followed by interment in Howkhurst camelery, flowers and conducts to conduct the property.	MAJOR COMPANY wishes to rent box at Ascot for Rogal Ascot week 1982.—Piesse ropy Box 1059 G The Times. ASCOT BOX WAMPIED to Rent, lease or boy.—Apply Hawkley. 411/Blackmore 254. HOS-HT-LLI V Buses with large adie ning Marques for hire at Aintree, Ascot, Brands Halch, Wimbledon etc. Phone Moodles (0423: 4310 for colour brochure and menus.	CORFU CRETE RHOI
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oay, January 19th at 11 am. followed by Interment in Howkshurst camelery, flowers and condulines to K. B. Sills. Funeral Directors, Cranbrook 712384. BROWN.—On 12th of January 1992, Jayco de Witt, beloved wife of Jack and mother of Ronald and Susan, Funeral pricials.	INSTANT FLATS, Cheises, Linxury perviced, Mr Page, 573 3333; KEN.—Gorgeous gdm. flat. 2 bedrooms, Ige, recep pine kit., C.H., col., Tv. phone, maid, £135 p.w., 5/6 menths 1.73 0753 Senday 17th. TENNIS CT. 4 bed, modern town house, Sw18, 25 Jan-25 Feb, £175 p.w.—870 2458, KEN.—Gludio flat for 2, C.H., col., Tv. maid, 3 menths 1.570 p.w.—573 0753 Senday 17th.	125 Aldersgate Street, Tel: 01-250 1355, 251 3 on Tel: (0742) 33607
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State. SURTON.—On January 12th, 1562, sher likess, Mariella, of Paris House. East Mailing, Funeral service at East Mailing, Funeral service at East Mailing, Parish Church on Monday, January 16th at 13 noon. COWie.—On 12th January at home, Mary 1, D, of Maring, Mary 1, D, of Maring, Sioney Cross, Peur Lyndhurst. DAWES, C. A. W. (Bill.—Of	270 p.w.—373 0753 Sanday	breakfast, ica, dinner and £250 per fortnight in Jan Other dates Jeannie 52253
Has 'Sioney Gross,' near Lyndhura. DAWES, C. A. W. (Billi.—Of Mount Ephraim, Favorsham, Keni, an January 12th 1982, belowed husband, father and	HOLIDAYS AND VILLAS	CARACAS, MEXICO CITY as
DAWES, C. A. W. (888).—Of Nount Ephraim, Paversham, Kenl, on January 12th 1982, befored husband, father and grandfather. Fonoral at 177.	SKI VAL D'ISERE, Incipave holl- days from £96 p.p. 8/8 to £168 p.p. for loxury catered staffed chalct holidays inc 3 meals wine and coffee, Skival, G1-200 6080 (ATOL 1162).	CARACAS, MEXICO CITY a lain America. Special ba- availante. John Fores Ltd. established West End Account tenes, 01,499 ABTA.
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Lyndhurs. DAWES, C. A. W. (Bill).—Of Mount Epiratim, Faversham, Kent, on January 12th 1983, beloved husband, father and grandrather. Funoral at 51. Michael's thurch, Merne Hill, Monday, 18th January at 2.56. Michael's thurch, Merne Hill, Monday, 18th January at 2.56. Bolyl Rd. Boluth, Claydon, Arthur Bernard, 3god 53. Beloved husband of Lona and Isther of Joanna and Jonathin. Cremation at Oxford on Monday, 18th January at 1.30. Hill January at 1.30. Juney 18th January at 1.30. Hill January at 2.40 p.m. No Rowers please, HOPE MORRIS, JOHN HAROLD.—On January 15th, Peaceholy in hospital, widower of Mary and beloved Father of Gaynof, Emsheth Hobson, Funeral at Lawrysiym, Powis, on Saturday, wife of the late Surgeon Vice-Admiral St. Konneth Alexander-Ingleby Mackenzie, mother of Folicy and Colin, Funeral at Puney Vale Crematerium on Monday 18th January at 10.45 am. No Bowers by Teneral at Puney Vale Crematerium on Monday 18th January at 10.45 am. No Bowers by Teneral at Puney Vale Crematerium on Monday 18th January at 10.45 am. No Bowers by Teneral at Puney Vale Crematerium on Monday 18th January at 10.45 am. No Bowers by Teneral at Day Oxecchilly after a long United Kenneth Conting on Saturday at 10.45 am. No Bowers by Teneral at Puney Vale Crematerium on Monday 18th January at 10.45 am. No Bowers by Teneral St. Paris Conting Juney Long United Kenneth Conting on Junery Juliang Kenneth Conting on Junery Juliang Kenneth Conting of Junery Juneral St. Juneral Colin.	COSTCUTTERS ON FLIGHTS/ HOLS to Europe, USA sad 21 desting Diploment TVL 01-7-31 2201 ABTA IATA, ATOL 1858	SKI BARGAINSI Meribel & V 1 wk £154, 2 wks £259 board, travel surcharges 938 1482, ATOL 1554, Si
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beloved hosband of the late Berty and dearly loved father of Peter, Anne and Bridget, Croma- tion at Cantors, Wostbury-on-	EUROPEAN FLIGHTS.—Euro- check, U1-542 4613 (Air Aris).	ROME ESS. Jo'burg £390 r Reef (0272) 422-93/4 (A
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Funeral Service at St. Mathiaa Church, Wellswood, Torquay, on Friday January 15th at 11am, followed by interment at Paign-	81-351 1126	VAL D'ISERE, Meribel and liter, amazing reduction ratered thoiet holidays ing Jan 16 & 23, Tel
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NEWELL.—On 12th January, 1982, at Worthing Hospital, Rosemary, widow of David Newell, dearly loved mother of Antony and	WORLD LEADERS WE'RE	Through '83, Bon Ave 01-937 1649 (31-bra) ATOL 8708 Access/8'car
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memorial service date to be announced. SCOTT,—On Friday. 8th January Sheina. wife of Ken Scott. of Cakenuir. Typehead. Midlethian.	research and little on preven- tion. Action on Smoking & Health (ASH) leads the field in the campoign against disease	01-637 8382 Airline Agents
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Today's television and radio programmes

THE TIMES THURSDAY JANUARY 14 1982

Edited by Peter Davalle

BBC 1

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OF MEDITINE

9.05 For Schools, Colleges: Today's subjects are Living in a Developing Country, it's Your Choice, it's Maths, Science Workshop, Scene, Near and Far, Search (Down the River Taff) and On the Rocks. There's an interval at 12.20. At 12.30, News After Noon: with Moira Stuart and Jereny Thompson; 12.57 Financial report and news headlines; 1.00 Pebble Mill at One: Music and chat. And if goes out "live"; 1.45 King Rollo: for the very young; 1.50 Stop — Got The testing of a new car; 2.00 You and Me: another one for the very young; 2.15 For Schools, Colleges: Music Time and Television Club (A School in Time: Schools); 3.55 Play School. (see BBC 2, 11.00 cm)

4.20 Laurel and Hardy; cartoon; 4.25
Jackanory: Rodney Bewes reads part four
of Ursula Moray William's Jeffy, the

4.40 Huckleberry Finn and His Friends: Episode 2 of the Mark Twain story.

5.05 Newsround: with Paul McDowell; 5.10 Blue Peter: The story of Jane Austen and her secret. The presenter is Sarah Greene.
5.40 News: with Linda Alexander; 6.00 Regional news magazines. And at 6.25, Nationwide.

features; the first floating fish tarm; an expensive piece of hi-fi equipment which can correct faulty records; a new way of making milk products from powder which can increase the life of a cream bun by six

months. And another reason why smoking mothers-to-be may be harming their

7.00 Tomorrow's World; Tonight's edition

7.25 Top of the Pops: with Dave Travis.

8.00 Wildlife on One: The Great Hedgehog

Mystery. An A to Z of the spiney ones, including S for Sex.

8.30 Seconds Out: Boxing world comedy. The champion is bound for Parts, but round one

9.00 News: with John Simpson. And weather

Comwell (r).

9.25 Shoestring: The Teddy Bear's Nightmare.

10.20 Question Time: Robin Day and his panel of experts face another audience at London's Greenwood Theatre. Tonight, the accent is on education. His panellists are Neil Kinnock, Opposition spokesman on education: Shiday Williams

11.20 Kojak: A full-scale murder hunt is launched

for the killer of a police patrolman.

BBC1 VARIATIONS: Cyneri/Walen 10.10-10.32 am I Ysgollon, 12.57-1.00 pm News, 2.15-2.401 Ysgollon, 6.00-8.25 Welen Today 7,00-7.25 Heddin, 12.19 am News, headlines, Scotland 12.55-100 pm News, 3.00-3.30 The Attention Show, 6.00-8.25 Reporting Scotland, 8.30-9.00Current Account, 12.10 am News, Northware Indiand 11.30-11.55 am For Schoola, 12.57-1.00 pm News, 3.53-35 News, 6.00-6.25 Scorey Around Skr, 12.10 am Close.

12.10 Weather forecast. Closedown at 12.15.

Another in this drama series starring Trevor Eve as the radio station private eye. Why is the owner of a lost handbag so reluctant to claim it? Also starring Michael Medwin as

the station boss, Dave King and Charlotte

education; Shirley Williams, former Secretary of State for Education; John Thom, headmaster of Winchester College; and Marian Roe, a Greater London Council

to 10): Out to Play; 12.40 Home Sweet Dome. Open University programmes end at 1.15; Intermission follows: 3.55 Robinson's Travels: Another chance to see this series of films in which the TV and radio personality Robert Pobleson (1095) personality Robert Robinson goes journeying through India. Today: Calcutta to Mirzapur. His eventual destination is Simia (first shown on

11.00 Play School: The Story of a

4.45 Muggeridge: Ancient and Modern Second screening of this eight-part autobiographical series in which Malcolm

5.40 All Creatures Great and Small:

Muggeridge, with the help of archive film, surveys his multi-

faceted life. Today: his education and a teaching post in India (r).

More pages from the lives of country vets. Today: an

emergency operation on a workman's dog. With Robert

serial about Welsh lifeboats

7.35 History on Your Doorstep: First

9.00 The Nolans: Songs from Bernadette, Maureen, Linda and Coffeen, They include God

concert next week. 9.30 Forty Minutes: The Great Cover-up. Documentary about

Knows, Attention to Me, and Fame. There's another Nolan

the expense, pair and disappointment that some men

disappointment that some their have to put up with when they decide to have something done about the fact that they have more skin than hair on the top

of their head. Made by John Percival, who knows what it means to be short of thatch.

10.10 International Darts: The quarter-finals of the Embassy

Purves. More at 11.30. 10.45 Newsnight: news and

.11.30 International Darts: Back to Stoke-on-Trent, Ends at 12.15.

World Professional Championship, from Jollees Club in Stoke-on-Trent. The semi-finals begin tomorrow.

7.15 Cartoon: M Pointu. From

Hardy, Christopher Timothy (r) 6.30 Ennal's Point: Episode 2 of the

A local doctor goes fishing and lands himself in trouble.

Canada; 7.30 News summary.

in a new series (see Choice).

Nothing Without Work: Work. lesure and community life of the people of Govan, on the edge of Glasgow, It's the story of a fight for survival.

River, with music adapted from

9.30 For Schools. Subjects Include My World (diary men), Seeing and Doing (Roman Britain), Geography (valley glaciers) And Over to You (print): 12.00 Little Blue: baby elephant story; 12.10 Get Up and Gol: with Beryl Reid; 12.30 The Sulfivans: Grace's birthday dinner; 1.00 News from ITN; 1.20 Thames news headlines; 1.30 Take the High Road: Scottish estate serial. Enter a stranger; 2.00 After Noon Plus: with Judith Chalmers. Trevor Hvett: Judith looks at the heavy Smetena. Presented by Chice Ashcroft and Fred Harris (also on BBC 1, 3.55); 12.00 Open University: Yoday's subjects are: — The Pre-School Child (Give and Take); 12.25 Childhood (5 Chalmers, Trevor Hyett: Judith looks at the beauty business and seeks answers to the question: Is it all a great confidence trick? 2.45 Love Among the Artists: Episode 2. Shaw's novel serialized by Stuart Latham. The teacher (John Stride) clashes with Mr Brailsford (John Horsley) once again. Also starring Geraldine James, Judy Campbell (1).

ITV/LONDON

3.45 Three Little Words: word association game. With Ray Allan. 4.15 Dangermouse: cartoon, 4.20 Little House on the Prairie: Mrs Oleson (Katherine MacGregor) seeks another "daughter". 5.15 Emerdale farm: Yorkshire country folk . 5.45 News from ITN; 6.00 Thames area news. 6.30 Thames Sport. The local scene surveyed.

personality joining the questioners. This is the first of this new series.

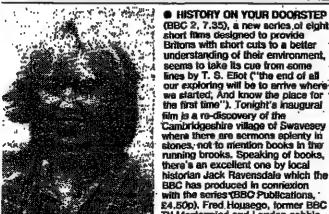
7.00 Does The Team Think? TV version of the old radio question-and-aswer comedy show. With Beryl Reid, Jimmy Edwards, Frankie Howard, William Rushton and Tim Brooke-Taylor (as MC). The questions are put to the panel by members of the public, And, each week, there will be a different guest about the large them. 7.30 Film: The Way We Were (1973) Romantic drama about the on-and-off relationship between a politically active girl (Barbra. Streisand) and a non-political writer (Robert Redford), With Marvin Hamisch's much-loved music. Co-starring Bradford Dillman, 9.00 Film: The Way We Were (continued.) 9.00 Fum: The Way we were (continued.)
9.30 TV Eye: Challenging the Russians, Nick Downie's filmed report which he shot behind the Soviet lines in Afghanistan. Guided in darkness, by Afghan guerrillas, he made his way through the city of Kandahar to the central area held by the insurgerits. He filmed the street by street fighting between government forces and the guerrillas. Dowled that two arouths to film his proof.

took two months to film his report. 10.00 News: And Thames area news.
10.30 Danger UXB; Dead Man's Shoes. Repeat of this superior drama series about a bomb disposal squad in warline Britain, and starring Anthony (Brideshead Revisited) Andrews. This episode, the first of 13, has Andrews, a Royal Engineers officer, being posted to a bomb disposal company. It is 1940 and London is daily having to face the horror of these appalling weapons of destruction.

destruction. (r). 11.30 Enterprise: Profile of Robert Sangster, said to be the world's number one horse dealer, and his team who have become known as Sangster's raiders because of the way they

swoop on horse auctions (r). 12.00 What the Papers Say: Andrew Alexander, political writer on the Daily Mail. 12.15 Close:With Ginette Spannler.

CHOICE



Beth Morris: BBC 2, 6.30 pm

(BBC 2, 7,35), a new series of eight short films designed to provide Britons with short cuts to a better understanding of their environment, seems to take its cue from some lines by T. S. Eliot ("the end of all our exploring will be to arrive where we started, And know the place for the first time"). Tonight's inaugural

film is a re-discovery of the Cambridgeshire village of Swavesey where there are sermons solenty in stones, not to mention books in the running brooks. Speaking of books, there's an excellent one by local there's an excellent one by local historian Jack Ravensdale which the BBC has produced in connexion with the series (BBC Publications, £4.50p). Fred Housego, former BBC TV Mastermind and London cabble, now making some headway on radio and television as a perky Everyman, the procupation with his past and the correct a skill, this percentage of the past and the correct a skill, this percentage of the past and the correct a skill, this percentage of the procupation with his past and the correct a skill, this percentage of the liad is a one-man him, it shouldn't run for ever, or thereabouts.

Donald Fraser's integrating music. ... Guitar enthusiasts will be gued to Radio 3 (3.15) for part one of the Segovia International Guitar unlike Messrs Savalas and Brynner, Competition.

eight films. In two of them, to be screened later, he will be the viewer's proxy as explorer. In the others, including lonight's, he is the local history pupil, learning from experts such as Professor Ravensdale. I don't see how this series can fail to be an inspectacular success or how, given the average Briton's

resort to every concealment device known to man in the cause of acquiring an alien covering of head thatch. The case histories of four afflicted Londoners are examined and case for those who have found that there can be a bonus in baldness. B Radio choice: On lesser shoulders than Alan Howard's,

Christopher Logue's WAB MUSIC (Radio 3, 7.35) would press down with a mountain's weight and drive both actor and production into the earth. But, thanks to Mr Howard's oratorical skill, this recital of books 15 to 10 of the light in a construction.

aid in establishing personal identity. 8.40 Concert (Part 2) Elgar Seren-ade for strings Rimsky-Korsa-Radio 4 6.00 News Briefing. 6.10 Farming Today. 6.30 Today. 9.00 News. 9.05 it Makes Me Laugh. Les Dewson listens to some entertainers that make him-9.30" The Living vronu.
10.00 News.
10.02 Two Lives. A look at the lives of Daffyd Wigley. MP and his wife as they try to give their two healthy children a normal upbringing, whilst their two other children are dying from a hereditary disease.
10.30 Daily Service.
10.45 Morning Story: "A Five-Set Match" by Donald Bancroft, 11.00 News.
11.05 File on Four.
11.50 Enquire Within.
12.00 News.
12.27 Never Too Late.†
12.55 Weather.
1.00 The World At One.
1.40 The Archers.
2.00 News. 2.00 News. 2.02 Woman's Hour, 3.00 News. 3.02 Play "The Wise Woman of Beyewater" by Stephen Wyatt.†
4.00 Home Base.
4.15 Bookshelt.
4.45 Story Time: "The Rover" by Joseph Conrad. (9) 6.55 It's a Bargain, 7.00 News, 7.05 The Archers. 7.05 The Archers.
7.20 Time For Verse, Simon Brett presents a selection of useful verse.
7.30 Bournemouth Symphony Orchestra direct from the Winter Gardens, Bournemouth, †
8.20 identity Work and the Gallery Queue, Halla Beloff reflects on how the arts can be a useful

11.15 The Financial World Tonight.
11.30 A Record of War. A look at the way the First World War affected women. RADIO 3 6.55 Weather.
7.00 News.
7.05 Morrang Concert: Handel,
Bach, Stravinsky: records.† 8.00 News.

8.05 Morning Concert (continued): Mozart, Beethoven, Haytin; records. 9.00 News 9.05 This Week's Composer: Softebin records.† 10.00 Violin and Plano: Recitat. Mozant, Bartok, Szymanowski Irranser Kochaniski t 10.55 Renessance Wind Music. Recital.†

11.15 Rachmanlnov Plano recital †
11.50 BBC Scottish Symphony Or-chestra Concert Susoni, John

1.05 Manchester Midday Concert-Piano Duet recital direct from the Royal Exchange Theatre: Hindemith, Schubert † Hindemith, Schubert †
2.00 Hercules aut dem Scheidewege
(Hercules at the Cross-roads)
Music drama in one act by
Bach (sung in German,
record) †
2.55 Milhaud's Cello Sonata: Cello
and Piano rectal †
3.15 The Segova International
Guiter Competition, excerpts,
from the prelaminary and semifinal rounds †

final rounds †
4.00 Donan Wind Quintet Recitations, Barber, George Perle, Jean-Michel Damase †

record †
7.35 War Music: An account of books 16-19 of Homer's "Riad" 9.25 Words (series): Talk by Michael Neve
9.30 A Century of Choral Music
(series) Concert given by the
BBC Singers Part 1. †
10.10 Interval Reading. 10.15 Concert, part 2. 10.15 Concert, part 2.
11.00 News
11.05 Howard Blake on record I
Medium Frequency/Medium
Wave as wit above except.
7.05-11.15 am Cricket Fifth

Radio 2

Where 6.40 Take Tuckerman 7.00-7.30 Benson 10.28 News 10.34 Better Read 11.05 Medicine Men:

Radionics, 11,35 Jazz Barbara Thompson's Paraphernalia, 12,05cm Closedown.

HTV Cymru/Wales

As HTV West except 11.22 am-11.37 Am Gymru 12.00 Poli A Piè 12.05 pon-12.10 Calimero 4.15 Theatre Box. 4.45 Sèr 5.10-5.20 Underseas adventures of Captam Namo 6.00 Y Dydd 6.15 Report Wales 6.30-7.00 Sports Arena 10.30 All Kinds of Everyttena Magazine programme from

Everything Magazine programme from Cardiff. 11,30-12.30 em Victoria Park.

ULSTER

As Thartes except 1,20 pm-1,30
Lunchtime 4,13-4,15 News 4,20
Adventures of Black Beauty 4,45
Flying Kimi 5,15 Watch This Space
5,30-3,45 Good Evening Ulster 6,00
Good Evening Ulster 6,25 Police Sot.
6,35 Crossroads 7,00-7,30
Emmerdale Farm 10,30 Bizzerre:
Comedy 11,00 Medicine Meh:
Radborics 11,30 BEDTIME,
Closedown.

As Thames except 1.20pm-1.30 News, 5.15 Gus Honeybun s Magic

Birthdays, 5.20-5.45 Crossroads 6.0 Today South West 6.30 Tele Views, 6.40 Take Tuckerman 7.00-7.30 Benson 10.32 News, 10.35 Controversy Plan for legalized brothets 11.05 Medicine Men:

Radionics. 11.35 Jazz: Barbara Thompson's Paraphemaka 12.05em Postscript 12.10 Closedown.

TSW

7.30 Terry Wogan † 10t00 Jimmy Young † 12.03pm John Durn, † 2.00 Ed Stewart † 4.00 Dawid Hamilton † 5.45 News 6.00 David Symonds † 8.00 Country Club † 9.00 Alan Dell † 10.00 The Sourcers and Friends 10.30 Star Sound Extra 11.03 Brian Matthew † from Midnight 11.00em Truckers Hour † 2.00-5.00 You and the Night and the Music †

Radio 1

5.00 As Radio 2 7 00 Mike Read 9.00 Smon Bates 11.30 Dave £ ee Trees 2.00pm Paul Burnett 3.30 The Record Producers (Part 2) 7 0m Dowd 8.00 David Jensen 10.00 John Peel † 12.00 Close

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REGIONAL TELEVISION VARIATIONS

ANGLIA

As Thames except: 1.20 pm-1.30 News, 2.00-2.45 Not for Women Only. A20 Vicky the Viking. 4.45 Further Adventures of Oliver Twist. 6.00 About Angila, 6.20 Arens. 6.35 Crossroads, 7.00-7.30 Benson. 10.30 Daris, 11.00 Medicine Men; Radionica, 11.30 Hagen, 12.30 am Council in Question; Medicine Men; Radionica, 11.30 World Council of Churches.

BORDER.

As Thames except: 1.20 pm-1.30 Border News, 4.20 Happy Days, 4.45-5-45 Here's Boomer, 6.00 Lookaround, 6.35 Crossroads, 7.00-7.30 Emmerdale Farm, 10.30 Golfing greats; Arnold Palmer, 11.00 Medicine Mort Borlington 4.30 Mem. 44-32 en: Radionics, 11.30 News, 11.33

YORKSHIRE As Thames except: 1.20 News. 4.20 As Inames except: 1.20 News. 4.20 Sport Bity. 4.45-5.45 Little House on the Prairie, 6.00 Calendar, 6.35 Crossroads. 7.00-7.30 Emmerdale Farm. 10.30 Harewood by George: Profile of Earl of Harewood, 11.13 Medicine Men: Radionics. 11.45 Ladies Man. 12.15 Closedown.

TVS As Themes except, 1.20 pm-1.30 News. 2.00-2.45 Not for Women O News of the Week, 5.30-5.45 Coast to Coast, 6.00 Coast to Coast, 6.35 Crossroads, 7.00-7.30 Emmerdele Farm, 10.30 Just Williams, 11.00 Medicine Men: Radkoncs, 11.30 New Avengers, 12.30 am Company followed by Closedown.

SCOTTISH

As Thames except: 1,20 pm News, 1,30-2,00 Bygones, 4,20 Palmerstown USA, 5,15 Pet Subject 5,20-5,45 Crossroads, 6,00 Scotland Today, 6,20 Bodyline, 6,30 Now You See it. 7,00-7,30 Take the High Road, 10,30 Make Mine Music, Norman Bailey and Bernadotte Greevy, 11,00 Medicine Men; Radionics, 11,30 Seachd Lathean, 11,45 Late Call 11,50 Barney Miller, 12,20 am Closedown,

Alan Howard in War Music

As Thames except: 1.20 pm-1.30 News 2.00-2.45 Not For Women Only. 4.20 Palmerstewn USA, 6:10 Jobline. 5.20-5.45 Crossroads, 6.00 News. 6:30 Our incredible World. 7.00-7.30 Emmerdale Farm. 10.23 News 10.30 Scene '82: Arts. in the West, 11.00 Medicine Men, 11.30 Lou Grant. 12.30 am Closedown.

TYNE TEES

Tyne Tees As Thames except Starts 9.20am Good Word 9,25-9.30 News. 1.20pm-1.30 News. 3,45-4,15 hadpen-LSU News, 3.45-4.15 Selloman: Old salling barges, 4.20 Fanglace, 4.45-5.45 240 Robert, 6.00 News, 6.02 Crossroads, 6.25 Northern Lite with Tom Coyne, 7.00-7.30 Emmerdale Farm, 10.30 News, 10.32 Job Biot Extra, 10.35 Berney Miller, 11.00 Check It Out, 11.30 Medicine Men, 12.01 Enloyed, 42.03 den. 12.00 Epilogue. 12.05

CHANNEL

GRAMPIAN

As Thames except Starts 9.25 am-9.30 First Thing 1.20 pm-1.30 News 4.20 Flying Kinn 4.45 Sport Billy 5.15-5.45 Emmerdale Farm 6.00 North Tomght 6.30 Police News 6.35 Crossroads 7.00-7.30 Entertainers Cambridge Buskers 10.30 Bizarre Off-beat Comedy 11.00 Medicine Men Radionics 11.30 Seachd Lathean 11.45 News. 11.50 Closedown.

As Trames except 1.20 pm-1.30 Granada Reports 4.20 Here a Boomer 4.505.45 Little House on the Prame 6.00 Granada Reports 6.25 This is Your Right 6.30 Crossroads. 7.00-7.30 Emmerdate Farm 10.30 Barney Miller 11.00 Medicane Menthealing 11.30 What the Papers Say 11.50 Jenspoed and Brown Shoe. 12.45 am Closedown.

GRANADA"

CENTRAL

As Thames except 12.30 pm-1.00
New Kord of Family 1.20-1.30 News.
4.20-5.45 Film Dot and the Kangaroo
Austration settler's daughter becomes
lost in the bush 6.00 Crossroads
6.25 News 7.00-7.30 Emmerdate
Farm 10.30 Venture Current affairs presented by John Edwards 11,00 Medicine Men Radionics 11,30 News 11,35 Dear Detective (Brenda Vaccaro). 12,35 em Closedown...

Entertainments Guide

ENTERTAINMENTS	ALDWYCH \$836 6404 CC 379 6233 (10-6, Sats. 10-4), Into 836 6332.	OUCNESS. S & CC 836 8243. Even, 8, Wed 3, Sat, 5.50 2 8.50. Richard Todd, Derren Nesbitt "BAST TERULLER FOR YEARS," THE BISTINESS OF MURDER	MICHAEL CRAWFO
CC Most credit cards accounted for	final performances.	and Carole Mowlam in	in the Broadway Music
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blike. Selephoning use prefix 01 only when outside London Metropolikan Area.	Next parts AS YOU LIKE IT 18 Jan.	THE BUSINESS OF MURDER -AN UNABASKED WINNER, 'S. EXP. "SENSATIONAL, THOSE.	Eves. 7.50. Mais. Weds., S.
irea.	segnal relationships and is not suit-	DUKE OF YORK'S 856 5123; CC 836	2055, 01-754 8961, for
	Ton't 7.30 pm run: 3 hrd 20 mins. Next peris AS YOU LINE 17.18 Jan. LA RONDE 25 Jan (this play is about sexual relationships and is not sub- able for commentation and is not sub- crome Sates 379 505 ress. 2005. The Wardhouse/Piccadilly.	19837: Grp. Sales 379 6061. Eves.	Credit Card Reservations.
	In warenouse, a second.	DUKE OF YORK'S 256 5122: CC 236 9837: Gro. Sales 379 6061. Eves. 7.45: price Mai. Today. 3, Sat 5 & 8.15: MON & PATRICK CALLOW RYECART	LYRIC HAMMERSMITH 8 to 2511. JAM58 BOLAM, CADSTL in Duncan / Chir's J. DN OLD PEKING the ALADDIN. "Spetting performances"
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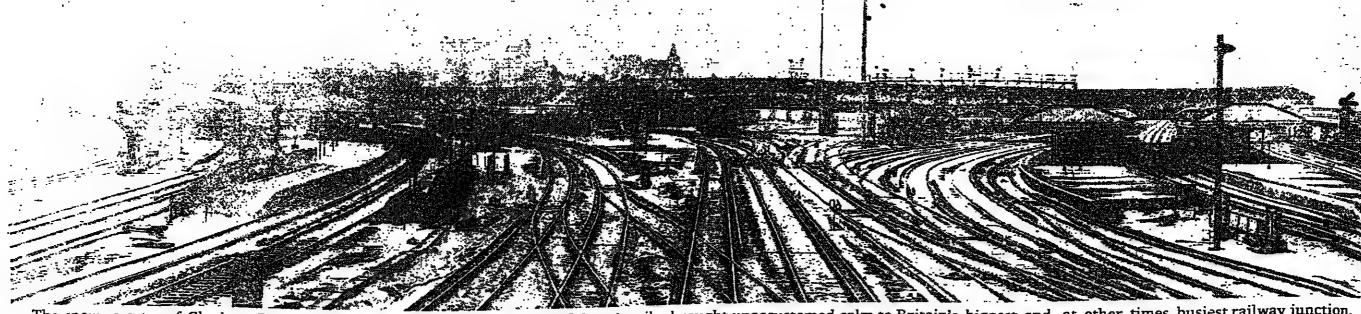
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The snowy wastes of Clapham Junction in London yesterday as the train drivers' strike brought unaccustomed calm to Britain's biggest and, at other times, busiest railway junction.

BL said last night that the

supply of components from snowbound South Wales to its Midlands car factories was still critical and would remain so until major roads had been uphlocked

Three helicopters are run-ning a round-the-clock shuttle service of the most urgently-needed parts from Llanelli, Neath and Ysstradgynlais to its

plants at Longbridge and

still touch and go whether we can keep the assembly lines running. We have been within hours of a shutdown."

Miss Wales, 21-year-old Vicky

Newitt, had to be rescued by helicopter from her snowed-in home at Blaenavon, near Newport, so she could go to London to qualify for the Miss Great Britain contest and Mr Peter Neal, a student aged 20, amined in Coulife for the many contest and many could be could be for the many contest and many could be could be for the many could be could be could be could be compared to the many could be could be could be compared to the many could be could be could be compared to the many could be could be compared to the could be compared t

strived in Cardiff after com-pleting a week-long 180-mile sponsored walk through blz-rards and drifts from Llan-dudno in North Wales, which raised £1.000 for the disabled students fund of the South

Clamorgan Institute of Higher Education at Cardiff.

280 volunteers gave blood at Uttometer after an angeal that

In Staffordshire, more than

A BL spokesman said: "It is

The big freeze claims more victims

The severe weather con-tinued in ritain yesterday, with freezing fog and black the creating more hazards for minuters forced on to the weds by the rail strike.

A blanket of freezing for cescended over most of Engausing multiple pile-ups on motorways and several faral accidents. Motorway speed limits were imposed, and the RAC reported visibility down to 10 yards in places. to 10 yards in places.

A woman passenger was killed in a mree-lorry accident in freezing fog on the Great North Road near Peterborough died when his car hit crash barriers on the M4 near Reading. A multiple crash involving about 20 vehicles on the A34 in Oxfordshire left two A.4 in Oxfordshire left two men and a woman seriously injured, and seven-mile queues. Two crashes within minutes on the fogbound A11 pear Newmarket involving 11 cars left one person injured, and junction 13 on the M1 in Bedordshire was closed after an zccident.

Mr David Doyle, aged 20, and his brother James, aged 8, died, four people were taken to hospital and dozens evacuated from their homes in Dublin aftern their homes in Dublin after a series of gas leaks thought to be associated

with the freeze. Mr Hecley Wilson, szed 49, was killed when he became entangled in machinery while leaning out a grit spreader incry at a county council denor in Darley Dale, Derbyshire. The London Weather Centre

Freeze kills 130 in America

☐ The freezing weather which has gripped the United States since Saturday has now claimed 130 lives and has spread south from Texas to Florida.

There, citrus fruit growers tried to save their crops by lighting fires in the groves or spraying the trees with water, in the hope that a covering of ice would protect them from the frosty air. Farmers are comparing the damage to the \$900m disaster of 1977.

The latest victims of the weather, included a man aged 90 and his 86-year-old wife, both deaf mutes, who froze to death as they slept in their New York home after their furnace failed.

several places in Oxfordshire. A spokesman predicted that the cold weather would con-tinue today, but a thaw starting in the South-west, North-west, West Wales and Northern Ireland would reach the rest of the country by the end of the week.

The Government has talen the first steps towards mying to win EEC compensation for the damage caused by the snow and ice. The Department of the Environment has sent reports to the EEC Commission in Erussels, "alerting them that we have a disaster". a spokesman said vectorday.

The weather caused £40m of damage to property lost month reported temperatures of tion said yesterday. It was ton efforts, -16°C early yesterday in early to estimate the damage Farm

caused this month, much due to flooding.

Hundreds of roads in Wales and the South-west were still impassible yesterday. About 1,400 homes in North Devon were still without electricity, and many isolated communities were cut off for the sixth successive day. By last night the South-west Electricity Eoard land the South-west Electricity Eoard for farmers. When the Government and the EEC Commission for compensation for farmers. cessive day. By last night the South-west Electricity Board had restored power to 90 per

cent of homes. More than 30 towns and villages in Wales were still totally isolated last night, six days after the principality was hit by the worst blizzard in living memory.

Bread, milk and other essential supplies are still scarce and some areas faced the additional misery of water shortages as ice blocked up reservoir pumping equipment. In Dyfed, the RAF was using

helicopters to ferry supplies to 12 villages cut off from all other routes by 20ft snow drifts. Hundreds of people in Pembrokeshire were still without electricity in spite of the efforts heing made by engineers who were ferried to inaccessible powerlines by a fleet of nine helicopters. Most main roads in south Wales were open for single

lane traffic, although police exasperated by motorists ignoring requests to slav at home indicated they would prosecute an one causing an obstruction. The Prince of Wales has sent a message to Mr Nicholas Edwards, Secretary of State for Wales, expressing sympathy

for people suffering from the weather and congratulating troops and councils for their

Russia sees its chance in Albania

given here to rumours that there were more than a dozen casualties in the shooting showdown. But, whatever the truth, Yugoslavs are inclined to con-clude that the days of Mr Hoxha's one-man rule have drawn or are drawing to a

The Russians also seem to have got wind of something going on in Albania. Only a few days ago they published tew days ago they published an article in Izrestia which was unusually friendly and conciliatory to Albania and, for the first time in many years blamed the break in relations between Moscow and Tirana on the Albanian leaders, including Mr Hoxha.

Hitherto the Russians had deliberately refrained from

deliberately refrained from attacking Mr Hoxha person-ally as they were still entertaining hopes that he might change course. But the Izvestia article seems to mirror Moscow hopes that the end of Mr Hoxba might herald new prospects for the Soviet Union.
In recent days the Bulgarians have also been paying unusual attention to Albania and there was a flurry o newspaper articles, all in the newspaper articles, all in the same conciliatory vein, suggesting that the offer of Bulgarian friendship remains for the Albanians to pick up whenever they may be ready for it. Such a turn would clearly be most unwelcome in Relgrade. However had Yugo-slav relations with Mr. Hoxha Uttoneter after an anneal that may have been, he provided a supplies were running short due to the weather conditions.

Bill will aid release of mentally handicapped

By Lucy Hodges

The government is to change the Mental Health (Amend-ment) Bill now going through mentally handicapped people will be locked up in hospitals. will be locked up in hospitals, Lord Enton, an Under-Secretary at the Department of Health and Social Security, will be tabling amendments to the Bill which should mean that the mentally handicapped are not forcibly detained in hospitals utless they are abnormally aggressive, or seriously irresponsible. The number in this category is thought to be fewer than 2,000.

The move was hailed yester-

day as a tremeadous victory by Mr Brian Rix, the former actor who runs the Mencap charity. "We would have liked separate legislation but we bave got 85 per cent of what we want. We are really very

thrilled," he said. When the Bill was published in November there was an out-cry from Mencap because mentally handicapped people considered to be in need of special control were to con-tinue to be treated in the same way as the mentally ill.

Anonymous donations have

Anonymous constions have enabled the National Trust to increase its offer for Land's End to more than film, it was disclosed yesterday (John Young writes).

The trust was told that its pravious offer, believed to be about £750.000, was not acceptable.

The charity has campaigned for years to educate ministers and the public about mental handicap, which is not an ill-ness and cannot be cured, but which is commonly confused with mental illness. Mencap with mental illness, Mencap wants to see the mentally handicapped taken out of hospitals altogether and not lumped together with the mentally ill as "mad" people. The amendments will still mean that the few mentally handicapped who commit serious crimes will be detained. serious detained,

In future only those who are The more was hailed yester-lay as a tremendous victory by compulsorily detained. In 1980, 12 mentally handicapped people committed serious crimes and the same number the year before.

Mr Rix estimated that the amendments would affect between 13,000 and 14,000 people now in hospital. He said that mentally handicapped people forcibly detained in hospital would be able to have their detention challenged. The committee stage of the Bill is due to begin in the Lords on Tuesday.

Officials hoped that the in-

vitation to revise its bid meant

that the owner, Mr Charles

Neave-Hill, was keen to sell

the property to the trust if

possible. But they had no means of knowing how many

rival bids there were or what they amounted to.

Trust raises Land's End offer

Gormley's appeal to miners

Continued from page 1 been recommended for accept, ance, but it was not, union-tunately, and that is why I have kept quiet up to now." But statements made by some left wing coal field leaders had prompted him to speak out as the miners made their decision on how to vote. " Some people are trying to turn it into a political argument. That political argument. That creates dangers that I don't think any trade union ought to be involved in. If we want to change the government we should do it through the ballor

If the men struck, it could take them two years to recoup earnings lost through a five or six weeks stoppage, and they would also seriously affect the Plan for Coal designed to safeguard the future of the industry.

"Therefore I have always

taken the view that in any negotiations there has to be A 55 per cent wajority is required for strike authority.

The board's offer, worth

3.3 per cent on basic rates and up to 10.5 per cent for men with long service, was the best made by any industry in the current round, Sir Derek Ezra said in Glasgow. Miners' earaings were now more than 20 per cent above average for workers in other industries and the offer would more than maintain that position. The coal industry had offset busness lost in the recession by doubling exports to 9 million tonnes—an achievement that would be jeopardized by sale losses from a strike.

THE TIMES INFORMATION SERVICE

Today's events

Royal: engagements

Prince and Princess Michael of adtend Royal Maritime Gala et St Paul's Cathedral, to launch Maritime England Year, 7.55. Exhilations

William Blake and his contem-porariles, watercolours and printed hooks, Graham Robertson Room, Fizzwilliam Museum, Cambridge, 2 to 5:

The Times Crossword Puzzle No 15,729

Miniature paintings and draw-ings by J. Q. Pringle. Graves Art Gallery, Surrey Street, Sheffield, 10 to S.

History of the traction engine. Reed, Octogon, Milsom Street, pointings by David Weston, Brit, 10 to 4.45.

Beasts on Wheels: 19th century travelling mengeries. John Mulns Pouseln and his engravers. University Art Gallery, Portland Eullding, University of Notting-ham, 10 to 7.

Thousands of Pictures—Millions of Miles, photographs by Freddie

Community Education Centre, Glasgow, 10 to 5. Paintings by Barrington Moore, Annexo Gallery, 45 high Street, Wimbledon Common, SW19, 10 to

The Imperial Collection, replica Music

Bath, 7,43. Buch Contain 32, St Mary-at-Hill, off Eastcheap 1,15.

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!	burs	sciis
Australia \$	1.75	1.67
Austria Sch	31.50	29.50
Belgium Fr	84.75	80.75
Canada S	2.30	2,21
	14.46	13.76
Finland &&k	8,65	8,21
France Fr	11,30	10.70
Germany DM	4.47	4.22
	126,00	117.00
	11.25	10.65
ireland Pt	1.26	1.21
	420.00	
		2320.00
	414.00	. 418.00
Netherlands Gld		4.62
	11.42	10.82
Portugal Esc	131.DO	123.00
South Africa Re	1 3.06	1.90
	193.00	184.00
	10.93	10.35
Switzerland Fr		3.41
USA 5	1.93	1.86
Tugos!aria Dnr		89.00
Rice for small	denomina	ion bank
Barchan Bank Inc	tulled for	lerday by
London : The F	7 Index	cose 2.7
to 537.3.		

ACIROSS

1 Haunt of bats and Tennyson's white owl (6).

4 A quarter for three of them

104 French artist in Fish Row (7). 11: Got to the point - summed up without a word of hesitation

1:2 Stick up company management with a playing-card? (10). 1.3 Fish spear (4).

1:5 French girl pushes father into river (7). £7 An art-master with energy? Wonderful! (7).

19 It's used to fasten hair-piece to head (4-3).
12 This garden of the King's Head by a Hampshire river (7).

23 Matural talent pots novice in pretty good situation (5).
25 Girl from a potty French family? (4).
26 As star

13 Stable company (4). 14 Sixteen standing 23 ac (10).

.: 7 Sea-food for Jack and no one 28 This wagon for the post? (7)

.29 Old tramp to smuggle silver and perhaps tea (5). 30 What was once called, we bear, elevation (6).

DOWN

1 Retract support on quiet deal, maybe (4-5).

2 Makes contact, which inter alia is essential (7). Swimmer cured? That's mis-leading (3,7).

5 Paper's intrinsic design to dilute foreign currency (9). Scandinavian mate tossed up a

Final stations shown in merit-8 Southern limit of marsh plant

Ruin a continental party (4). 9 Rum a continental party or.
14 Disruptive movement with underground origins (10).
16 Former pirate in midst of battle, a sociable type (9).

18 Red trade union takes the The call of stage or screen (7). Making for a title? (7).

Solution of Puzzle No 15,728

PRINCETOWNS COMP BUSE TOWNS CONTROL

PRINCETOWN CONTROL

PRINCETO

collection of Royal and imperial Crown Jewels and regalia of the world. Central Hall, Westminster.

Music for 18th century pleasure gardens Cornel Music Group, in period costume, Holburne Museum Great Pultency Street,

The Pound

	Eank	Baul
!	ն սյա	scii
Australia \$	1.75	1.6
Austria Sch	31.50	29.5
Belgium Fr	84.75	80.7
Canada \$	2.30	2,3
Denmark Kr	14.46	13.70
Finland Ask	8,65	8.2
France Fr	11.30	10.7
Germany DM	4,47	4.2
	126,00	117.00
Honekong S	11.25	10.6
ireland Pt	1.26	1.2
	1.20	
	420.00	2320.00
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Netherlands Gld		4.6
	11.42	10.8.
Portugal Esc	131.DO	123.0
South Africa Re	1 4.06	1.9
Spain Pta	193.00	184.0
	10.93	10.3
Switzerland Fr		3.4
USA 5	1.93	1.8
Tugos!aria Dne		89.0
Raise for small	denomina	'ion ban
Barchy's Bard Inc	tulled for	Herday b
London : The F	7 Index	rose 2.5
to 527.3.		

Poland. America might lose in-terest in the alliance.

The New York Times said yes-terday the Reagan administration has had plenty to say about mili-tary repression to Poland, but what about South America? It praised Mr Reagan, however, for his courageous decision on air-craft sales to Taiwan, as did the Washington Post.

Wildfowling ban

A second 14-day ban on wildfowling has been imposed because of the continuing freeze. It covers the whole country and lasts until midnight on January 26.

Postal delays

Anniversaries today

Pierre Loti was born at Roche-fort. 1350 and Albert Schweitzer at Kaysensberg. Alsace 1875. Lewis Carroll died at Guildford, 1893.

Travel emergency: Rail, road, sea

The following Weather Centres are open 24 hours a day. 355 days a year, for weather advice: Bristol: 0272 279298: Cardiff: 0222 377020; London: 01-836 4311: Manchester: 061-832 6701: Newcastle:

Rail strike

Park, Regent's Park, St James's Park, Eattersea Park, Victoria Park, Hackney, Dulwich Park, and Peckham Rye fairground.

Car sharing

The papers

The Frankfurter Aligemeine Zeitung warns if Europeans try to get out of sonctions over Poland, America might lose in-

Letters and parcels posted yesterday and today will be delated because of the rad strike, and some express facilities cannot be maintened during this period. Bad weather is causing additional delays to post, particularly in S Wales, the West Country and some parts of the Midlands.

Roads

Roadworks

Roads will again be congested because of rail strike—allow ex-tra time for journeys.

improvement

Wales, with several main roads still closed because of snow, although M4 now open. Mountain passes in N Wales still closed.

Several main roads remain closed in West Country, including A46, Bath to Stroud, A434, Tetbury to

Malmesbury; A431, Bath to Bittom; A39, Porlock to Linton, and A361 near Beckhampton.

A417, Gloucester to Cirencester closed to heavy vehicles. In Scotland, many minor roads still closed, and snow drifting on A9.

Freezing rog and ky patches is making driving hazardous to many parts of the country.

Midlands: A5: Temporary signals between Weedon and Hinckley, Northamptonshire, M1:

For pre-recorded information on rail, air and road travel in High pressure will decline R632 26453; Nottingham: 0602 334092; Southampton (open 6 am t 10 pm): 0703 28844.

There will be no services today, and no overnight trains tonight. Trains expected to run normally from tomorrow morning, but for times of very early morning de-partures, call station information offices, which will be manned to-day, or Traveline (see above).

Parking
There will be no free parking at meters in London. Parking restrictions will be enforced but there will be extra parking facilities for private vehicles in London, including greats in Hyde

Car sharing
The AA advises commuters to share whenever possible to help ease traffic congestion.
Motorists can offer lifts without infringing their insurance policies, even if they accept a contribution towards running costs of the car. Under a carsharing agreement with the Government, insurance companies are prepared to include the giving of lifts in their standard policies as long us the vehicle is not being long us the vehicle is not being used to make a profit. Any pas-senger who accepts a lift will be automatically covered under the minimum legal requirements of compulsory third party lusurance.

The National Bus Company says rine National bus Company says scheduled departures are being maintained, with some delays to arrivals, especially on inter-city routes, because of weather con-ditions and road congestion due to rail strike.

Accommodation The London Tourist Board has made special arrangements to help workers to book hotels in the city: call 01-730 3450 before the city: call 01-130 5450 before 5.30 tonight for bookings over a range of hotels; or bookings can be made in person at National Tourist Information Centre, Victoria Station, from 9 am to 8.30

pm.

The Board says it is not having any difficulty in finding people hotel accommodation. Ferry strike

PAPERBACK Brideshead F

ion Uses of a Dead Car The French Deutenant's

The French Deviament's Y Traveller's Britain Eavesdropping A Oulver Full of Arrowa Not 1982 Fame is the Spur Unreliable Mempira Shaping Rubly's Smake The Timos list is base and verified relail sales

Talks simed at ending the Sealink dispute were in progress last night, but sailings are unlikely to return to normal immediately. For latest information call 01-823 4142 or Sealink offices at ports.

Evelyn Waugh Simon Bond John Fowles Arthur Eperon Nicel Roca Jelfrey Archer

troughs of low pressure

6 am to midnight

Channel Islands: Dry scony periods:

Lake District, fale of Man. NE England, Borders, SW Scolland: Dry cloudy, some freeding log patches at first word S moderate: may being 0 to 20 (22 to 36F). Eduburch, Donder, Abardeen, Glasgow, Central Highlants, Maray Firth, Arryll, N Ireland: Mexity dry, cloudy: wind S to SW, moderate to iresb; max Lemp 2 to 40 (36 to 50F).

Ordisok for tensores and Saturday: Dry in SE, econolinal rain in NV: rear normal tensor in N and W, less cold elsewhere.

fresh; see moderate. Sun rists: 8.01 am Sun tets: 419 pm

Last quarter: January 16. Lordon 4.49 pm to 7.50 am Bristol 4.59 pm to 7.39 pm Edinbergh 4.59 pm to 5.04 am Manchester 4.43 pm to 7.17 am Penzance 5.16 pm to 7.46 am

signals between Weedon and Hinckley, Northamptonshire. M1: Lane closures from Loughborough turn-off (junction 23) to exit 24 (Derby). A41: Congestion likely between Warwick and Birmingham. A33: Congestion N of Worcester and SW of Birmingham. A456: Long delays from kidderminister and Birmingham. North: A535: Alderley Road, Chelford closed between railway bridge and Curbishley Brook: diversion. A64: Roadworks at Bramham crossroads. M18/M180: One lane each way. Humberside. West: M5: Only bard shoulder in use between junctions 11 and 12 near Gloucester. A38: Lane clostres at Marble Viaduct, Buckfastleigh, Devon.

Stotland: A82: Single line traffic with lights between Glencoe tentre and Strathclyde regional boundary. A83: Diversion and single line traffic with lights SW of Inverary.

Roadworks may be cancelled if weather becomes unsuitable. Roadworks may be cancelled if weather becomes unsuitable.

Information supplied by the AA.

Airports

Because of rail strike, short-term car parks at Heathrow are under heavy pressure. Passagers should allow extra time for park-ing and checking in. Special coaches to Gatwick for British Caledonian inter-confinen-tal passengers are running during rail erike from the altitue's Vicrail passengers are running during rail strike, from the alrline's Victoria terminal, call 0293 25555. There are extra buses on Flightline 777 route between Gatwick and Victoria Coach Smiton during rail strike; also half-hourly coaches between Gatwick and Heathrow, Call 0293 502116 or 01-222 1234.

The Times list of best-selling books

Weather

approach NW Britain.

London, SE. Central S. E. NW. Central England, E Anglia, Midlands: Precing fog påtomes diesking skokly, sunny periodor mino SE, lighty max temp 0 to 20 /02 to

SW England, Wales: Dry sumy periods early far patches at first, and S. light properate; may semp 1 to 30 (24 to

NE. NW Scatlard, Orlmey, Shetland; Closing rain or origin at times; bind SY', fresh to strong; max temp 4 to 6C 739 to 439;

SEA PASSAGES: S North Sex, Straits of Dover, English Channel (EF: Wind S to SE, nedertle, locally Iresh: 24 slight or moder-te. St George's Channel, Irish Sex: Wind

Lighting up time

Yesterday emperatures at midday yesterday: G, cloud; . fair, fg, log. s, sun.

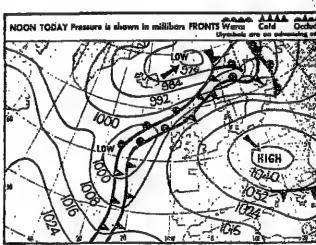
London Temp: max, 6 am to 6 pm, 4C 39F, min, 6 pm to 6 am, -2C, 23F. Hamidity 6 pm 85 per cent Pain, 24hr to 6 pm, nil. Sun 24hr to 6 pm, 6-9hr 8ar, psan sea level, 6 pm 1,032.3 militars,

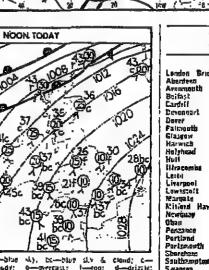
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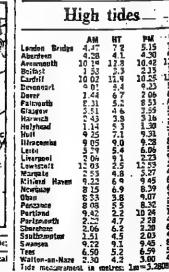
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MANCHESTER: Casmas 151R 18 72-13 25 W. 60MWW: NE' Casmas 236R: 13m 151 6 35-8 70 S: 2558; E Casmas 1296: 17.43 17.50 MWW- 10N N Casmas 185R: 19 16-19.77: SSV/ 2055W. 55W Interestmos 14R: 17.10-17.19 WSW, 40MW, NWE. Seaset: 17.31-17.34; N, 10N; NW. Predictions supplied by Earth Satellite Unit, Aston University.

Printed and auditoria to Times News-napers Librard FO. Box 200 Gray's Inn Road, Lembor Willy 86-7, Ingland Tob others 01-857 1231, July 25 1771. Thursday January







Around Britain

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Abroad

MIDDAY: c, Cloud; f. fair, fg fog: r, rain; s, sun; sn snow: th, thunder. C F c 10 50 f 16 61 c 13 64 s 30 63 Madrid
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ا حكدًا من الأصل

Guide to Information Technology

This report is published to mark the start of IT 82, a £1.2m year-long campaign by Government and industry, to create public awareness and overcome = suspicions of the "information revolution".

What exactly is information in a recent MORI poll 80 per cent of those interviewed had

Published 1785

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never heard of it.

The minister in question, the end of this, Information Technology Year.

The officials responsible for promoting IT see their mission in very broad terms. According to the press release introducing IT Year 82, information technology is "the use of computers, micro-elec-tronics and telecommuni-cations to help us produce, store, obtain and send information in the form of pictures, words or numbers, more reliably, quickly and economically." That definition encompasses telephones, satellites, industrial robots, television, even elec-

The Year is a purely national campaign — not to be confused with international efforts like the Year of the Disabled. Armed with £1.2m contributed equally government and industry, the organizers are trying to incite the British people and British companies to join what the chairman of IT 82 Alan Benjamin, called the worldwide Information Revolution.

tronic Space Invaders games.

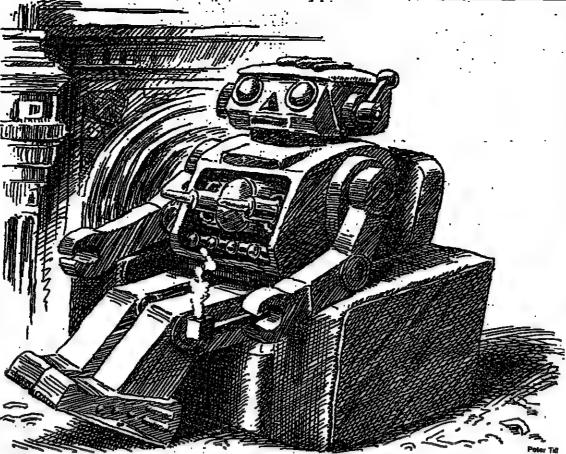
The country which led the Industrial Revolution two centuries ago cannot hope to outperform the rest of the world again. But we must avoid falling hopelessly behind the leaders, now the United States and Japan. If we make no effort, Britain's relationship with the information-rich countries of the twenty-first century will be rather like, say, Mexico's relationship with Britain after the Industrial Revolution.

In theory IT 82 is aimed technology? It is considered equally at the general public important enough to com- and at industry. The public mand the services of a campaign will attempt to Government minister, and yet convey the excitement of information technology in the home, at work and elsewhere: schools, colleges, shops, banks, libraries, hospitals. Mr Kenneth Baker hopes for The tone will be reassuring a different state of affairs at rather than revolutionary, rather than revolutionary, soothing not strident; the idea is to persuade the deeply conservative British people that the familiar landmarks of life will be improved not swept away.

However, it is clear that unofficially the Government regards the industrial cam-paign as far more important. Alan Benjamin says the approach to companies will be "much sharper, saying 'get with it, you're behind.' It's a much harder message of encouragement to industry."

Many of those involved in IT 82 see this year as a last chance for British industry to keep up with the world leaders. And they do not just mean the IT business itself computer, electronics and nology for a whole series of communications companies — activities which are the fastest but tens of thousands of growing economic activities poorly managed firms making in our society," he said. "IT products or offering services is now at the centre of huge that have nothing to do with converging flows of invest-information, from furniture ment. Computing and teleto food. Almost all of them communications are convergcould improve their processes ing very rapidly, and in by installing a microcomputer association with them is the to store data and process whole of the entertainment accounts, or a Prestel terindustry." minal to gain access to other people's databases, or a com- the same question quite diffe-puter-aided design or manu- rently. "The prime exciteputer-aided design or manu-rently. "The prime excite-facturing system, or even a ment is in the area of social full-scale robot. "For industry IT 82 is

almost a once-and-for-all opportunity to get its act together," says David Fairburn, director of th National Computing Centre. When I asked Mr Baker



trial-economic terms. most exciting think is that it is the coordinating tech-

Alan Benjamin answered systems," he said, giving as an example the old age pensioner who will be able to sit in front of his home information terminal in a few years time and ask it to explain in clear simple terms When I asked Mr Baker how social security and tax what particularly excited him legislation will affect his about IT, he replied in induspersonal finances.

Until now the effect of the so-called information explosion has been to overwhelm people with far more information than they can. handle. The means of sorting what you need or want out of the constant barrage of words, numbers and pictures have been hopelessly primitive and inadequate.

The result is that today people make crucial decisions on the basis of far too little information. The combination of communications and computing power represented by IT will feed each of us with the data and interpretation we really require. Then we will be able to devote all our energy to the information itself, rather than the search

Computers are starting to become more "intelligent" and "friendly", as the jargon goes: Designers are beginning

respond more like humans.

Before the end of this century the Japanese are likely to introduce computers with which people can have a normal spoken conversation. Armed with sophisticated voice recognition and synthesis, and programmed to respond to the subtle nuances of human speech, the IT terminal will be able to comprehend and answer a command like this:

"Pve got a meeting in the centre of Leicester at 10 tomorrow morning. That will probably go on for two hours but better allow three just in case. Then I want to go on up to Nottingham to visit our branch there during the afternoon, and afterwards I need to get to Derby in time for an early supper with my brother and his family. He can meet me at the station any time after 5.30 — no, wait, I think to make them think and he said 6.30. Give me a printout of all the trains I will need tomorrow. Mr Benjamin believes that

homes of the 21st century will have three separate IT systems, for entertainment, communications and environmental control. Technically there is no reason why they should not be combined into one — and indeed the information may come into the house in a single cable - but he says: "I don't think people want to confuse entertainment with communictions,"

The entertainment system will provide a huge variety of films, music and TV programmes, including "interactive" facilities like a far more sophisticated version of today's phone-ins. The com-munications terminal(s) will include the (video?) telephone and a means of access to many computerized databases, such as the travel expert we wanted to ask about trains to the Midlands. The environmental systems will control the home's heating, in re-sponse to outside weather conditions, so as to minimize energy consumption. Most of the system's hard-

ware will probably be imported, mainly from Japan. But the software - the programmes that make it operate - may still be produced in Britain. Although "genius" some observers Britain's software — much quoted in the computer-electronic press — may be swept aside by the efforts the Japanese are making in this area too, most of those involved in IT82 believe that we can hold on to our lead in software and computer applications.

However, Mr Baker warns against counting Britain out of the hardware market too soon. After all, he points out, we are currently turning out more computers than the United States or Japan. In terms of volume, though not course value, Sinclair's ZX81 is the best selling computer in the history of the world.

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- Page 2 The state of the domestic IT in dus-
- Page 3 A historical ap atomy of computers,
- telecommunications and electronics: An A-Z of Info r
 - mation Techno logy explains some () if the confusing j ar-gon of the industry and some of the milestones of discoveries and in ventions that gave birth to IT
 - A-Z continued and some of the pit falls of choosing a p ersonal computer '

What are the fears, opposition and attitudes to IT?

- Page 6 The trades unit ons and manageme nt
- Page 7 Privacy and data protection
- Page 8 Man and machine in Japan

IT is already affecting all our lives in some way. The neext pages look at developmen ts in:

- Page 8 Health
- Page 9 Education, man u-
- facture Page 10 Office
- Page 11 Government spind-
- Page 12 Television screen
- Page 13 Money
- Page 14 Home and Leisuire Page 14 Events calendar for
- IT 82
- A look into the future — Clive Gookson, Pearce Wright. IT in the High

Clive Cookson

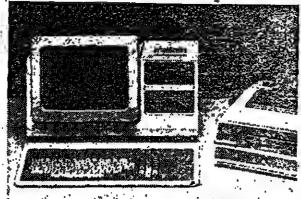
Every busy director deserves apersonal assistant.

"But I've already got one...my secretary," you may be saying.

True, but does she have the time to give you all the help you need?

Many secretaries are so bogged down with day-to-day correspondence, reports, minutes and so on they just don't have the time to be personal assistants as well.

We don't think a person in your position



should have to worry about these problems.

So we've come up with the answer. The new Bitsy Secretaire.

This is a

specially developed word processor which can speed up all routine 'chores' quite dramatically, so your secretary will

have plenty of time to give you all the help you need. With a minimum of training she can produce letters, reports, minutes with much less effort.

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MOMENTUM

If yet're interested in looking at computers for on-line traiss action processing, your list of computer manu facturers can be just about as long or short as you

But if you want resilience - the built-in ability of your system to recuperate quickly after a failure - your list will be ver y short indeed.

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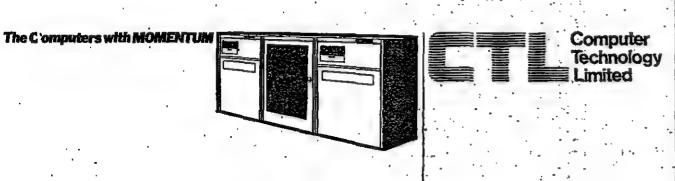
MOMENTUM:

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No other computer maker offers you a choice of resilience features, starting with systems costing only £40K. No other computer maker offers you a standard upgrade path - letting you add resilience in steps as you need it. And no other computer maker offers resilience as a retrofittable add-on to its systems already in the field.

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BICC Cables are helping to shape many of the technologies that are shaping all our futures. Information Technology is one example. Just one.

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INFORMATION TECHNOLOGY

The state of British information technology is outlined below by David Hewson. On the facing page Pearce Wright discusses the global background to computers, satellites and electronics

Worm's eye view of market

There are plenty of official figures outlining the way in which Britain has fallen badly behind in the rapidly-growing specialization of information technology. But perhaps the most effective demonstration of this fact can be had by visiting one of the many centres now selling the many centres now selling the software of the communications revolution, every-thing from CB radios to home computers, Prestel television converters to aerials for receiving satellite

television.
One is unlikely to find more than a handful of British-made products any-British-made products anywhere on view. This may not be a precise metaphor—such shops cater largely for home use or small businesses—but its experience is equally applicable to the larger and more wealthy world outside, the vast office systems of the near future, with their electronic mall systems, computerized telephone switchboards, and conference facilities linked by television.

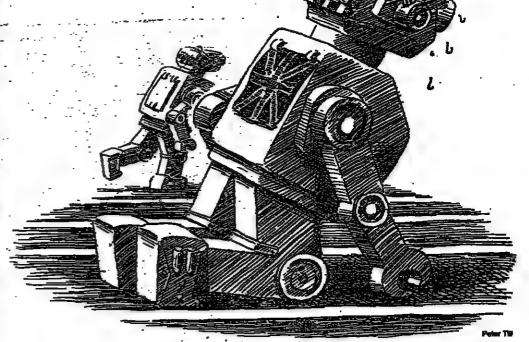
Britain's total trade deficit

Britain's total trade deficit in information technology in 1980 was £300m. The figure is unlikely to be much changed today, and could have been worse were it not for the effects of the recession. And despite the efforts of both government and industry over many years, British manufacturers are no nearer possessing a significant world presence in the exports market.

The most startling area of domestic failure is in the sale of computers and periph-erals. In 1979, 83 per cent of a total market of £1,241m ment to foreign manufacturers. Two years ago, the sector employed 49,000 people in Britain. Today the recession and redundancies, notably at the state-backed flagship ICL, are thought to have reduced the workforce

This poor showing is not simply worrying in terms of the domestic balance of trade. At constant 1980 prices, the worldwide infor-mation technology market is expected to grow at the rate of 14 per tent from 1980 to 1985, rising in value from £54,400m to £104,700m. Dur-ing the same period, according to a report prepared by the consultants, PA Com-puters and Telecommunications (Pactel) for the then National Enterprise Board, Britain's share of the world. market can only be expected to remain at 5 per cent.

Pactel succinctly summed up the British problem thus: "Based on estimated 1979 turnover, about half of the world's top 50 IT companies are American-owned, nine are Japanese and Britain is in third place with six companies (including Rank-Xerox



which is 51 per cent Ameri-

the British-owned companies are GEC, ICL, Plessey, Thorn-EMI and Racal Decca. Thorn-EMI and Racal Decca. Its system of putting None of these companies has information through telethe world scale or breadth of vision sets aroused a heartening amount of foreign interaments, or indeed of European competitors such as Siemens or Philips, Furtherpore there is a scarcity of several advances, in the early stage of development. British Telecom is working Siemens or Philips, Furtherpore there is a scarcity of ing a machine codenamed dynamic small and medium. Albert, which is due to be size high growth companies size high growth companies launched later this year will in the British IT industry, combine teletext, telex, word one marked exception being processor and telephone

About half of British IT production is from compa-nies which are foreign-owned, usually by American-interests, and the domestic industry is, Pactel concludes, weakest in the highest growth areas such as small business computers and word processing, and strongest in the traditional markets such as defence and public telecommunications equipment.

One historical problem which has faced British companies in the field had been its high risk nature.

This situation places on the state a large part of the responsibility for leading the responsibility for leading the sector forward, whether through such bodies as the National Enterprise Board (now renamed the British Technology Group after its recent merger with the National Research Development Cornoration) or Corporation)

procurement. home markets for new devel-

British Telecom's Prestel which is 51 per cent Amera— wideotext system is one of the "Apart from Rank-Xerox, few areas where a British the British-owned companies are GEC, ICL, Plessey, the field:

launched later this year will processor and functions.

The future for this sector lies in the eventual developcomplete home information systems, a prospect which is already exercising media organizations both in print and in entertain-ment: British Telecom will also unveil its Gateway system this year. . This seems to be one area

This seems to be one area in which Britain does not face an already established lead by competing nations.

The future of System X, the computerized switchboard system developed by British Telecom is unlikely to involve such export potential. Some £2,500m will be spent between now and 1986 installing System X telephone ling System X telephone exchanges.

But the difficulty for the system is that it has been developed in the context of a state monopoly

Mr Tony Davies, a member of the Department of Industry's information technology panel is highly critical of British Telecom's record.

"There isn't a hope in hell of people in Britain who supply British Telecom winning any significant export business," he said recently. "British Telecom is so far behind in accepting new technology that the products it has developed — System X for example — are far behind what a free private sector could have supplied and they will become quite incapable of standing up in export markets."

These fears are not felt so deeply elsewhere. Mr Joseph N. Pelton, who is on the staff of the International Telecomof the International Telecom-munications Satellite Organi-zation (Intelsat) forecast in his new book Global Talk that Prestel, System X and computer and electronic business terminal ventures from Racal and ICI were just a few of the promising British IT projects for the

granus d

THE PERSON

For the immediate future Britain can expect to benefit from the growing interest and business and television satellites through British Aerospace's involvement in the European Space Agency satellite. There are also

satellite. There are also encouraging signs in the services industry, which is growing at a moderate rate.

How far Information Technology Year will enable Britain to turn these modest benefits into a real "catching up in the world high technology in the world high technology." up in the world high tech-nology race" remains to be seen. Certainly the stakes are high. Pactel gloomily pre-dicts that, if current trends continue, we will face a trade deficit in IT of £1,000m by

and the biggest event is The Barbican

INFO 82, Europe's leading. office automation show, opens on February 9th at London's newest exhibition centre. No other exhibition gives such a complete picture of the electronic office of the future. And this year's INFO will be

bigger than ever, with over 120 exhibitors showing the most advanced business information technology - including computers, word processors and information retrieval systems. There's even a section "Software in the City",

with the latest developments from Britain's leading software specialists.

Don't miss the new world of INFO 82 in the heart of the City of London.

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Milestones in a cheap and quiet evolution that will bring a consumer revolution

Computers

There are almost as many definitions of information technology as there are experts on the subject. So the evolutionary chart on page IV depicts some of the main developments from which information tech-

nology was born. This scheme of outlining the origins of the industry was prompted by an obser-vation by Mr Alex d'Aga-peyeff, the founder of the first British software firm more than 20 years ago, and managing director of Consultants in Information Techdistinction between "the old form of computing and the new information technology which has come with advances in the silicon micro-cir-

The present wave of infor-mation technology flows from the marriage of microelectronics; telecommuni-cations and computer pro-gramming. This merger has transformed computing and data processing from an expensive and specialized activity into a cheap consumer market.

In particular it has produced the personal computer; micro-electronic packages to enable telephone and tele-vision sets to be plugged into computer information net-works; and cheap and powerful electronics units for improving the large and medium-scale computer systems that reside at the centre of big industrial, commercial and governmental organiza-

In addition, the micro-computer has turned the idea of using semi-intelligent robots for manufacturing into reality. One result of that development is seen in the devastation of certain European industries by Japanese enterprise. And it is this innovation which is causing most anxiety among specialists in Britain like Alex d'Agapeyeff. He says it is no elly. accident that the Japanese came from behind to lead in

the volume production of micro-circuits. Confirmation of their success, if it is needed, is shown built for sale, based on the clearly in the analysis of the world's 50 top information technology companies listed in the chart prepared by the Pactel erganization in a valves packed into racks in a valves packed into racks in a part of the hartery of air-conditioned recent startey. Not one of the battery of air-conditioned

with the invention by Dr J Presper Eckert and Dr John Presper Eckert and Dr John huge power consumption. ories built into the computer, Mauchly with their machine But the invention which integrator and calculator) at the museum was the transis- discs provide the low-cost, the University of Panaghan the University of Pennsylva- tor.

and Europe supported from defence research money for with complex weapons calcu-lations and for deciphering

built in Britain, was the first



important claims for at least two machines completed in 1948 to be the real forerunners of the modern electronic computer. One of them labelled SSEC, built in IBM's laboratories, and the other known as the Manchester University Mark I had the programmes of instructions stored intern-

Many major technical advances were needed to make possible the transfer of computers from the univer-sity and military laboratories to commerce and industry. The first electronic computer

era was ushered in by 1946 cost, unreliability, limited very high capacity needed for bulk storage of information.

That innovation was the However, the first inven- most important among many The handling, directing ion was one of several other crucial discoveries in and processing of the flood tion was one of several other crucial discoveries in and projects in the United States hardware and software responsible for increasing the

Nevertheless there was considerable competition using photolithography using photolithography and account days. And a and other components on to cations.

The property of silicon the size of a the men a piece of silicon the size of a The part which regulates postage stamp. That birth of the memory and the arithmethe integrated circuit soon tic-logic units is the control brought a new generation of section. It regulates the flow small, desk-sized mini-com- of information between them. puters; and the larger models and interprets the instrucof computers also entered a tions programmed into the third generation of higher memory, and accordingly, speed, more powerful dispatches data once it has

hundreds of electronic components on one silicon chip, high-speed printer is the making possible the micro-most widely known type, processor and then the Whereas the actions of

micro-computer. underlie the plodding compu- the computer's electrical tation of the first computers impulses; so are the comand the microsecond speeds mands to an aircraft's steerof the current range of ing mechanisms from an electronic miniatures; all of autopilot, or artificial voice which need five basic secto another computer.

input section translates information from a variety of devices into a code that the computer understands. In the early designs there were only punched paper tape and punched card inputs. Now there are the familiar keyboard — and — TV units; magnetic tapes, discs and drums, optical scanners reading the magnetic code on cheques or the digital code on goods at the

cash desk of a shop. The memory section does what its name says. It stores information until it is needed by other parts of the machine. The most successful memory in modern com-puters for nearly 20 years has been the magnetic core variety, consisting of thou-sands of tiny iron beads.

tor memories on chip. In storage for information and addition to these main mem-

of information passing through a computer is done number of large and medium- by. its arithmetic and loxic developing new types of scale computers in use in the units. It is here that the powerful machines to help world from 6,000 20 years complex calculations are world from 6,000 20 years complex calculations are ago to nearer 250,000 today.

But by 1960 development programmed for largely odes.

Nevertheless there was beginnings of the processes, purposes, and the data is onsiderable competition using photolithography for manipulated in commercial photolithography for manipulated in commercial several transistors and administrative appli-

> Then came the major section. But the output can technical leap into miniaturization with large-scale integrated circuits, crowding entation of words and presentation of words. circuits, crowding entation of words and num-ids of electronic com- bers on a television display of robots on a car assembly line Yet the same principles are one form of output for commands or the directions

> > Nineteen-sixty, was the turning point for a lot of key developments, and that year the journal Communications of the Association of Comput-ing Machinery bad the follow-ing to say about one important emerging subject: "A common business-oriented language, called Cobo, for use in writing instructions on. business-type problems for any electronic digital computer, may soon be available. Cobol, which is written in English and independent of any make of model of any make of model of computer, was presented in the final report to the Conference of Data Systems

Languages ... " The purpose of a programming language is to make the writing of programmes writing of programmes cheaper and easier. By defi-

Japanese firms would have been included in a similar room.

The life of the first years ago.

The electronic computer short because of their size, and the electronic computer size of their size, and the electronic computer size of their size, and the electronic computer within the electronic computer size.

The electronic computer within t programmer writing the programme for a business the computer manufacturer application was about £2 per supplying specialized office finished line of machine instruction. A business application requiring, typically, 20,000 lines of instruction code therefore cost £40,000, and more than likely em-ployed four or five people for 18 months to two years.

That level of productivity would be completely unac-ceptable today. Improve-ments have been made in automating the design and checking of programming systems. As a result there is large number of advanced computer languages such as Fortran, Cobol, Basic, PL-1, and hundreds of software packages for particular applications for personal computer users or businessmen to buy off the shelf.

But the great skill remains in designing the original programmes. The methods to make that easier have reduced the costs nearer to 20 pence a line of code.

Satellites

The merger of computers, micro-electronics and telecommunications has created undersea cables long before the specialist marine and then computers were in-

computers and micro-elec-tronics to telecommuni- A rece cations has changed comoffice switchboard. Computer systems in particular, with their ability to store and control the organization of facsimile telephone and library information.

By the same token, the application of telecommuni-Each tiny iron core is at an nition that means more cations techniques and netintersection of two hair-thin reliability, because an imworks to computers has Even allowing for advance

isolated activity to a service between 30 and 40 satellites on demand. That change has demolished the previous demarcation lines between and industrial products and the telecommunications organizations providing tele-phones and switchboards; cable networks and radio

communications links.

The full potential of computers was opened when computer data transmission was first accomplished over earth links (co-axial cable and radio channels) and later the planet. In the past decade the capacity of civilian inter-national satellite communi-cations links has jumped from 150 to more than 15,000 circuits. The growth of satellite communication has been spectacular and shows

no sign of easing.
In the short time that the telephone, distance has satellites have flooded the been the major element in fixing tariffs and in curbing earth with messages they have become an integral part of the activities of organiza-tions like news agencies, cations networks. With the introduction of satellites, it is press and broadcasting serno longer an important vices, business, banking, factor. In a recent book, Global Talk, Dr Joseph commerce, agriculture, mining, aviation, navigation, meteorology and entertain-Pelton says as telecommuni-cations services have become ment. Yet fewer than 40 of faster, they also have become the 2.200 satellites launched cheaper. A one-page telex sent from New York to London cost today about \$12. since 1957 are for communications; and those can be divided into four categories A one-page letter or technical by use. There are two global sysdrawing sent by the Intelpost network is about \$5; and a

A recent study by the American National Aeronaupletely the design of the tics and Space Adminis-telephone handset and the tration forecasts a demand in the United States for more than 300 video channels, more than 20 million more telephone channels and an annual data volume of 40 information, are adding a annual data volume of 40 new dimension to the pro-million terabits (tera is the cesses used for the distri-bution of television, mail, million) within 20 years. That is equivalent to the capacity of another 100 of the current type of satellites which RCA and Western Union operate

in the size of satellites, that to be shared with 50 other countries. There are four domestic satellite systems in America. In addition to Western Union and RCA, a joint service called Comstar is run by two giant telecom-munications companies, AT & T and GT & E, on a space station leased from the

three-minute telephone call

on the public network costs

as little as \$3.16. Twenty

years ago public overseas

Some years ago Dr Marvin Kelly, then director of the Bell Telephone Laboratories

in the United States, called two of his senior research physicists to his office to

witness an experiment by another staff member. The

demonstration was conducted

with a rectangular black block, smaller than a cube of

sugar, which had little metal

contacts at either end. The

device was made from a then

little — understood material.

calls were 20 times higher.

Electronics

computers

Corporation (Comsat). But the most recent network is a E300 venture, Satellite Business Systems (SBS), owned by IBM, Comsat and the Aema Life insurance company. satellites which, with their immense capacity and combined use with and television, is forcing the pace in information tech-nology. Since the origin of

a single information industry tems: the Intelsat organiza-so sprawling it almost defies tion, which has more than so sprawling it almost defies tion, which has more than description. Telecommuni- 100 member countries and cations can be regarded as the Intersputnik network the elder statesman of the established by the Soviet three technologies because it Union. At the next level pervaded almost all corners come a number of developing of the globe with electro-domestic and regional satel-mechanical telephones and lite systems. Third, there are electronic components and aeronautical satellites for communications and navi-But the application of the military communications

generated between the two contacts. The little - understood material was silicon. And the

demonstration given by Dr Russell Ohl showed the first operation of what electronic engineers today call a p - njunction, which is the elec-trical effect on which the microelectronics industry is founded. But that original experiment occurred in 1940. It marked only the start of the research that gave birth Communications Satellite to semiconductor electronics by an aiready famous team of solid state Physicists at Bell Laboratories, and which led first to the discovery of the transistor; earning Doctors Walter Brattain, John Bardeen and William Shockley a Nobel prize for physics in 1955. There is a unique aspect of 1956.

The impact of that original demonstration of the in-triguing properties of silicon is told in a personal account of the discovery of the transistor by Dr Brattain. Subsequent research produced a number of materials which can be endowed with the unusual qualities needed to make p - n junctions.

Silicon is particularly attractive because of its abundance, being one of the main constituents of sand. Its value to the electronics engineer is that it can be made to be either electrically conducting or non-conduct-

The trick is to make a crystal of pure silicon and then introduce the timest trace of a special impurity into it by a process referred to as "doping". Only a microscopic area is doped with the impurity, but it is enough to cause a deficiency of electrons in this small zone to form a so-called p, or positive, zone. An adjacent area is doped to get a surplus of electrons creating an n, or negative, zone. Hence the name for the complete arrangement is a p-njunction.

More important, when two n zones are separated by a p zone they form a transistor, which is an electronic switch. Many thousands of transistors can be formed on a single chip. Moreover 250 chips can be made from one disc of silicon, 3 ins in diameter and one-fifth of an inch thick, which has been sawn form a silicon rod 3 ft

When a band of flashing There is no other manufaclight was allowed to flicker turing process like it. Each over a narrow region near disc is smoothed and then the centre of the block, a tiny Even allowing for advances voltage of about 0.5 volts was continued on next page

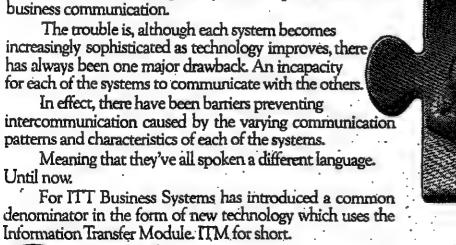
Data, voice and text.

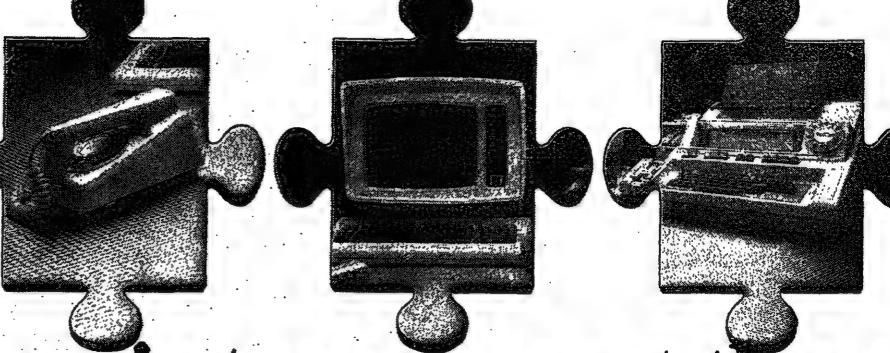
In the form of data terminals, telephones and telex, these separate systems are indisputably the three prime methods of

The trouble is, although each system becomes increasingly sophisticated as technology improves, there has always been one major drawback. An incapacity for each of the systems to communicate with the others.

intercommunication caused by the varying communication patterns and characteristics of each of the systems.

Until now.





Inly we can interconnect them so they can intercommunicate.

In converting the different signalling languages of each of your communication systems, the ITM links them all up together by effectively removing the barriers which have so far kept them apart.

But to explain precisely how it all works would take a technological age.

Suffice it to say that thanks to our innovative approach and our experience in data, voice and text systems, the phone can now talk to the telex, the telex can speak to the data terminal and the data terminal can converse with the phone.

The applications are unlimited. And surprisingly enough, this apparent miracle can be accomplished using your existing equipment.

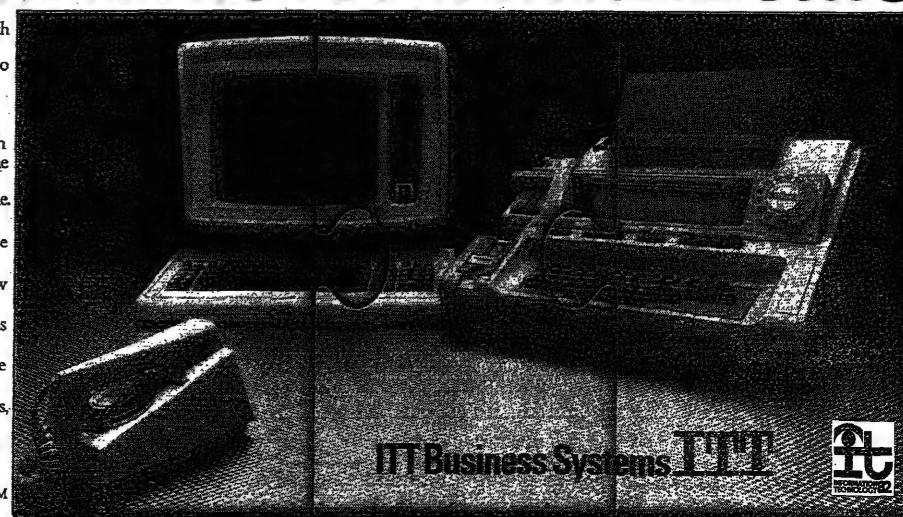
No need for any replacements. We will advise you how to add this new technology to your current systems.

Your present telephone, telex and data network systems are simply waiting for Information Transfer Technology. And in order for them to talk to each other, all you have

to do is talk to us. Write for details to ITT Business Systems, Lion Buildings, Crowhurst Road, Hollingbury, Brighton, Sussex BNI 8AN.

We have the technology to transfer all the information quickly to you.

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A-Z of Information Technology

Artificial Intelligence (AI). Although it may seem that computers have taken over they remain tools controlled by people. So-called comthey remain tools controlled by people. So-called computer errors are really caused by humans giving a computer the wrong instructions. At would allow a machine to learn, and then take decisions on the basis of experience. Widespread application is held up by two things: the need for vast processing power, and uncerprocessing power, and uncer-tainty about how the human

brain works. Automated Office. puters began automating the accounts office 30 years ago, and now word processors are automating typing. But that is just the start. The words can be sent by electronic mail, along with graphics, and discussed over a voice and vision link. Information can be filed electronically, then recalled selectively for automatic collation. Integration will be a key factor. In the office of the future all sorts of telephones, facsimile, copiers, type-writers, computers — will be linked together to work as a

processing capability. A group of bits is called a byte (usually eight bits).

Cmos. A type of semiconductor device of increasing importance. Integrated circuits (or silicon chips) are of two kinds: bipolar, characterized by high speed, and MOS, which are more com-

Basic. A computer language, from Beginner's All-purpose Symbolic Instruction Code. Symbolic Instruction Code. Computers only understand machine code languages, but high-level languages like BASIC enable programs to be written in something approaching plain English. Other high-level languages include ADA, CORAL and PASCAL, as well as the sci-fisounding ALGOL, COBOL and FORTRAN.

Bit. The basic unit of complementary metal-oxide semiconductor) are similar to MOS, but have very low-power requirements. Watches and calculators use CMOS, so

you do not have to keep changing the batteries, and as more CMOS circuits become available there should be a wider variety of portable electronics. Cambridge Ring. A local area network developed at Cam-Bit. The basic unit of computing an abbreviation bridge University. Central Processing Unit (CPU). The part of a com-puter system which controls all the operations, and car-ries out the arithmetical and logical functions. A micro-processor is a fairly simple CPU on a single chip. At the other extreme is the number

cruncher, a computer which bandles very complex calcuvery quickly. Similar digital techniques are now being applied to transmitting speech, recording music or handling television size of lations. handling television signals, where benefits include better reproduction and greater Data Base, Any collection of information, even a bulging filing cabinet, is a data base of a sort. In the would of IT,

cessors — can be taken out and stored, like a gramo-phone record. Increasing use is being made of the Win-chester disc, which unlike the flame commends the floppy cannot be re-moved, but which may cram in 50 times more data.

Expert Systems. If you can persuade experts to tell a computer everything they know, anyone can tap into the information so as to the information so as to become, in theory, experts in turn. The snag is that expert knowledge may not be amen able to computer storage: how do you codify judgment and intuition, as well as

Fibre Optics. Instead sending electrical signals over copper cables, infor-mation can be transmitted as filing cabinet, is a data base of a sort. In the would of IT, data bases are files kept in an orderly, electronic form, which can be accessed by remote users following a defined procedure.

Disc. Storage of computer data is often on magnetic discs. Information is added or accessed at high speeds with read-write heads. Floppy discs — popular for small

plex. CMOS circuits (from computers and word pro- Forgiving Systems: A comallows the novice to make mistakes without chaotic or consequences. consequences.
Confused users may be able
to press a "help" button,
which will call up a series of
prompts on the display
screen to lead the way out of disastrous

trouble.

Graphics. Anything in repre-sentational or pictorial form, rather than letters or num-bers, is called graphics in IT. Computers can turn data into histograms or curves, and show them on visual display show them on visual display units or draw them on plotters. Television systems like teletext and viewdata are progressing from the display of primitive graphics, made up from a matrix of dots, towards smoothed characters alpha-geometrics, and towards ters, alpha-geometrics, and eventually alpha-photo-graphics. All in full colour, of course.

Hardware. It used to mean the things standing outside an ironmonger's shop, but today hardware is the physi-cal equipment which makes up a computer installation, round.

Landmarks over 300 years

including the CPU and all the peripheral units. Software is the programs which tell the hardware what to do, and can include firmware, a perma-nent form of software. The people who write the programs and operate the computers are sometimes called liveware.

Information Technology (IT).
Favoured term for the convergence of techniques: in computing, microelectronics telecommunications to produce, store, access and send information of all kinds, whether pictures, words or numbers. Obviously signifi-cant in business, but also invading the home: teletext and personal computers are IT, but Hollywood movies:on a video machine are probably

not. . Interface. A plug and socket is an interface, but if comis an interface, but if computer equipment is to work together it must be compatible in software terms, as well as electrically. An interface unit may, therefore, convert data from one form to another so that different units can be combined. The man-machine interface is as much a philosophical approach as a matter of hardware, and aims to ensure that people control machines, that people control machines, rather than the other way

complete a calculation. For more than 20 years the phenomena of superconductivity have seemed to offer the prospect of unrivalled computing speeds, but the need for extremely low temperatures has so far made temperatures has so far made the technology impracticable outside the laboratory. The Josephson junction has to be cooled by liquid helium, but can then switch at a speed of less than 100 picoseconds (a picosecond is one millionmillionth of a second). Promising but experimental. Promising, but experimental.

Keyboard. After years of Another approach — pro-being tapped by typists and moted (not surprisingly) by tasks. The typewriter-style their destination. "qwerty" keyboard is still popular, but hand-held keyboards — usually called keypads — arrange the keys in a variety of ways. A hexadecimal keyboard, or hex pad, is used with microprocessors. It has 16 digits: 0-9, plus A, B, C, D, E and F, to represent 10-15 as single strokes.

The Light Pen. Another way of Josephson Junction. The faster a computer can switch data, the faster it can complete a calculation. For the the screen of a terminal. The the screen of a terminal. The points where the light pen touches convey instructions to the computer, making it draw lines or circles on the screen, or selecting an item from a list of optional functions. Another form of light any sometimes called a functions. Another form of light pen, sometimes called a wand, reads data in the form of thick and thin lines which form a bar code. Used at supermarket checkouts and for other data input

purposes.
Local Area Network (LAN).
By installing a special cable in a building or group of buildings, computing and communications equipment communications equipment
can be connected at any
point, and made to interact
by sending signals round the
ring or loop of cable.
Another approach probeing tapped by typists and teleprinter operators, key-boards have found a new role as input devices for computers and word processors, and to handle other control tasks. The transmission and to handle other control tasks.

Mainframe. The largest type of computer installation, needing a specially constructed, air-conditioned

Continued from page 3

highly polished to the quality of scientific optical glass. A microscopic scratch on the surface renders subsequent work on the material valueless. The discs are heated to between 1,000 and 1,200° C to create a hard coating . In the next stage a layer of a polymer material sensitive to ulraviolet light, and known as a photoresist, is applied. Next a tiny photographic plate or mask, of the chip's ciectronic circuitry, scaled down from a drawing 250 times bigger, is used to etch a pattern of electronic components by photo-lithography.

But the technology of silicon chip fabrication is moving rapidly to increase the number of components on existing large scale intergrated circuits of 10,000 to 20,000 to very large-scale intergration of 100,000 to 200,000 components and

Pearce Wright

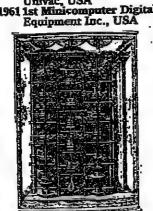
Computers 1642 Mechanical Calculator Blaise Pascal, France 1833 Calculating Machine (analytical engine) C. Babbage UK

1889 Punch Card Tabulating Machine H. Hollerith, USA 1939 Mark 1 Digital Computer H. H. Aitken, USA and

1946 Eniac (Electronic numerator integrator & computer) Moore School, University of Pennsylvania, USA

1947 Commercial Electronic Computer P. Eckert and J. Mauchly USA 1948 Edsac (Electronic Delay Storage Automatic Calculator) M. V. Wilkes, Cambridge University, UK





The first "computer", the analytical engine designed

Electronics

1898 Magnetic Recording V. Poulsen, Denmark 1919 "Flip Flop" (binary) circuit, Eccles & Jordan, USA 1948 Transistor Bardeen,

Brattain & Shockley,

1952 Integrated circuit concept G. W. Dummer, UK 1958 Laser A. L. Schalow & G. H. Townes, USA

1959 Integrated silicon circuits J. S. Kilby, USA 1962 Silicon Chip S. R. Hofstein & F. P. Heiman, USA 1963 Electronic Calculator Bell Puzch Co., UK 1970 Floppy disc IBM, USA

1972 Microcomputer Intel, USA 1972 Video Games Magnavox,

Telecommunications 1837 Morse Code on off

telegraph system, Samuel Morse, USA Submarine Telegraph Cable W. Siemens, Germany

1876 Telephone Alexander Graham Bell, USA 1896 Wireless Telegraphy G. Marconi, Italy 1925 Television J. L. Baird,

1945 Arthur C. Clarke proposes communications satellites 1948 Holography (three dimensional pictures) D.

Gabor, UK 1950 MODEM (made high speed data transmission possible) MIT & Bell Labs, USA 1957 Sputnik 1 1st artificial satellite, USSR

first Code Morse practical demonstration d Baltimore Washington, 1844.

1960 Electronic telephone switching system Bell labs, USA 1966 Optical Fibre Communications K. C. Kao & G. Hockman, USA

1960's Private networks 1970's Public data networks, local office and factory networks

Word processing

1714 Typewriting history begins with a British patent to Henry Mill for an artificial machine for impressing letters on parchment . . . " No details survive of

invention. invention.

1829 First machine capable of practical work, Called a Typographer. William Austin Burt, Detroit,

USA. 1867 First typewriter in constant use. Christopher Latham Sholes. New York, USA.

1872 First electric machine, consisting of a printing wheel, invented by Thomas A. Edison. Later developed into the ticker-tape printer. 1873 C. L. Sholes signed contract with E.

The products of information technology are things like office automation, microprocessor controlled washing machines and cookers, industrial robots, video telephones, electronic games, automatic bank cash dispensers, electronic mail and large data processing systems — to name a few. But they emanate from a gradual merging of the four technologies listed below. Remington & Sons, gunsmiths of New York, USA. 1909 Introduction of portables. 1937 Xerography.

opiic-

 $f^{\alpha_{k_{1}},\alpha_{k_{1}},\alpha_{k_{1}}}$

Electrostatic images transformed into a powder image and fixed by fusing. Chester Carlson, USA. 1961 Golf ball machine introduced by IBM,

USA. 1963 Ink Jet Printing. Method of forming, charging and directing ink electrostatically to form words. R. G. Sweet, USA. Technique extended by A. M. Lewis and A. D. Brown.

Research by Pearce Wright Main source: Electronic In-ventions and Discoveries by W. A. Dummer) published by Pergamon Press.

Please send me more information on the new EP 320. □ Please ring to arrange a demonstration. □ Send to: John Richards, Minolta (UK) Limited, 1-3 Tanners Drive, Blakelands North, Milton Keynes MKI4 5BU. Telephone: (0908) 615141 Telex: 825746

_Nature of business. Company____ Address_

Telephone.

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You can use your own headed paper, or even copy on film.
But best of all is Minolta's unique Micro-Ioning System,
which produces copies so close to the original, it's extremely hard to tell the difference.

This amazing quality could be yours.

Just think what having such a star in your company will do for your image.





Improve your image.

room. The minicomputer was originally a more robust but powerful machine, usually sold to original equipment manufacturers (OEMs), who incorporated them in industrial or scientific systems. Today mainframes have become smaller. while minis are more powerful and may be sold to end-users, so distinctions are blurred. Microcomputer.

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imprecise term for. (1) a complete but small computer (2) a microprocessor and its peripheral chips mounted on a printed-circuit board; (3) a single chip containing all the circuitry for a micro-processor, RAM, ROM and input-output functions.

Non-volatile, storage (fapes, discs, ferrite cores, bubble memories) is non-volatile, meaning the data is retained when the power is switched off. Semi-

power is switched oil. Semi-conductor memories, such as those used in pocket calcu-lators, are normally volatile: switch off and you lose all the data. Some volatile memories are fed with minute amounts of power continuously to make them, in effect, non-volatile,

Operating System. Not hardware, but software - the set of instructions in a computer which supervises and con-trols input-output functions and the running of programs which handle specific appli-

Optical character recognition (OCR). Putting data into computers could be speeded up if information could be read automatically from documents, rather than put in laboriously by keyboard. OCR tries to do this. Early devices could only read marks (for example, to check pools coupons), but modern equipment can handle typed pages. Recognizing handpages. Recognizing h writing is more difficult.

Pabr. As well as handling telephone calls today's private automatic branch exchange (PABX) can provide such facilities as abbreviated dialling, automatic re-call of bust lines, queuing of incoming calls, conference facilities, and the switching of these, and are characterised by increasing capacity and data as well as voice. The



Videotext — information on a television screen.

Silicon. The basic material

circuit. Although silicon is

which operate at very high

which give instructions to

puter users can now shop

around for software packages, which are ready-made

sets of programs to do specific jobs, such as payroll, direct mall, or word processing. Like a package holiday, software packages cut costs by giving the majority what they want food relay if you

crowd.

electronic PABX will help stores 65,536 bits, but will speed the departure of POTS (Plain Old Telephone Ser-Winch stores only 1024 bits. vice). In future, people getting a wrong number will know it's high technology be programmed to do several, within limits. They are of most use for repetitive jobs which is letting them down. Peripherals. In order to work, a computer's central processing unit needs peri-pheral equipment. This inin unpleasant environments.
Artificial intelligence will widen their scope, but the walking, talking robots of fiction are unlikely to take over in the factory, let alone do the housework. pheral equipment. This in-cludes magnetic discs or tapes to store information, card or tape readers to feed infor-mation in, printers to print out results, terminals to allow communication with the computer and other units, and plotters to plot out graphics. plotters to plot out graphics. Peripherals may now contain some processing ability themselves, and might be graded intelligent, smart, or dumb. for many semiconductor devices, including the pervas-ive silicon chip, or integrated

expected to remain the main material for many years, gallium arsenide can be used as the basis for logic circuits Query Language. Until re-Query Language. Until recently, only trained people have been able to communicate with computers. Now there are over 100 query languages, which aim to break down the barriers. Most allow limited English commands to be accepted by the communication. speeds, without the need for superconductive cooling, as with the Josephson junction. Software, The programs the hardware. Early programmers soon began to save time by building up libraries of sub-routines to carry out standard operations. Comthe computer, though some claim to make completely free-form English acceptable.

Ram and Rom. The random access memory (RAM) allows information to be stored or accessed in random fashion they want. Good value if you in a very short time. A read- are prepared to follow the

people can use a computer simultaneously, each operat-ing from his own terminal. The computer processes The computer processes parts of separate jobs in sequence, but users gain the impression they have the computer to themselves. Time sharing is still a valuable facility, but distributed processing has put more power at the terminal, and personal computers allow users to undertake simple computing tasks completely independently.

time, so work would pile up.

With time sharing, many

User friendly. Aware that most people think a computer console is about as easy to understand as the flight deck of Concorde, manufacturers are putting much effort into taking out the mystery. Touch a button, and the Robot. Automatic assembly systems can usually perform a single task, but robots can screen will display a menu, from which the user can select the service he wants. More button-pushing will lead through a series of instructions. Along with forgiving systems and query languages, the user-friendly approach means that even beginners can come to terms with a computer.

> Very large-scale integration (VLSI). The first integrated circuits put only a few components on a chip of silicon. Next came mediumscale integration (MSI), with hundreds of components, and then large-scale integration (LSI), with thousands. Now VLSI puts as many as 100,000 components on a chip. De-signers see no barriers to integrating a million components. Videotext. A generic term to

describe TV-based information systems. Teletext, which includes the BBC's Ceefax and ITV's Oracle, broadcasts "pages" of data which can be selected with a suitably modified television

Viewdata. Links the TV to the telephone and gives a more varied, interactive service by connecting users to a central computer. Prestel, British Telecom's viewdata service, is for public use, but many businesses are also using private viewdata sys-

variable in a set of data, and see how this affects all the see now this arrects all the other variables. A business-man can ask "What if the price of oil rises by 10 per cent?", push a few buttons, and see whether he can survive the next energy crisis. A powerful planning aid, though viewing the results may call for strong

Work Station. What every smart executive will be sitting at, instead of a desk. As well as a telephone and personal computer, it's likely to include facsimile, data terminal, videophone, viewdata units, and much more. The very essence of IT chic.

Xerography. The technology which brought plain-paper copiers into virtually every office. Despite rumours that the paperless office is imminent, copiers are likely to go on flourishing. They may even become electronic mail terminals, sending and receiving text and graphics to and from many locations. X is also the international

symbol in telecommunications signifying digital operation, in which the 0s and 1s of computer language are used to switch telephone calls and transmit both voice and data. System X is Britain's digital exchange family, and British Telecom is launching a digital com-munications service called X-

Yield. A key factor in the falling cost of integrated circuits. Hundreds of circuits are made at the same time on wafers of silicon, passing through a complex series of processing steps. At the start of production many devices fail, but yield goes up as manufacturers move down a learning curve. Prices drop dramatically, because more good products are produced without any additional cost in materials or processing.

Zap. The programmable read-only memory. (PROM) can be programmed using special. equipment. This is known as "PROM blowing". When the program is erased, the PROM s said to be "zapped".

It's a job to choose

with some exceptions, only

offer a 90-day guarantee on

unless the company has a

nationwide network of some

kind. This is one reason why

it is all the more important to

buy equipment, and espec

cure all ills, but many of these

they have appeared.

Computers

companies vanish as fast as

automatically increase pro-

ductivity but they can increase efficiency. The first

thing is to have a good look

Mr Bob Robinson, of Byte

microcomputers since the early days in 1963, believes there are five basic questions

a customer should ask him-

self. Have I got a system that

extra staff, and if so would

productivity?; What would be

would it take to repay the

return on the extra invest-ment?; Will I be sble to reduce my staff? The answer

to this, according to Mr Robinson is "definitely 'no"; Am I really trying to

dodge the issue? In other words do I think a computer

there be an increase

Choosing a personal com-puter, other than one to play games on, is to join the new comes. Even after you have chosen your computer, its printer, additional disc printer, drives, and the programmes high street jungle warfare. there are still many unsus-pecting shocks. Generally speaking most companies, It took me a long time,

spread over nearly two months before I was able to pinpoint the machine of my choice. During this period I visited many of the High Street shops and so-called "computer centres", talked to dozens of salesmen, and read through piles of manufacturer's blurb and scanned many a computer magazine Personal Computer and Micro, Decision — two of the best sources of information. It is quite obvious that there are far too many cowboys selling both hardware — the computers and associated equipment as well as the software — the programmes to make the computer do what you want it to do. you are only interested in games the problems are reduced as the knowledge and effort which have gone into producing computer games is totally out of cially programmes, from well established reputable compaproportion to that spent on the more serious uses for nies. So many software houses have sprung up over night offering a wide variety of programmes which apparently small computers.

Many sales assistants seemed to know little about many of their own products. When unable to answer relatively simple inquiries a more vely simple inquiries a more senior person, usually the manager, was called. The stock attitude which was all too common was that the manager would immediately try to "sell you up", in other words try to persuade you to buy something more elaborate (according to him) and much wore expensive than much more expensive than what you had first been interested in. With the Shop Computerland, an expanding network of branches up and down the country. Mr Robinson, who has been involved with software or actual grammes the situation comes even worse for the innocent buyer.

The computer magazines are full of stories about people who have bought programmes for accounting, stocktaking or word processing which simply cannot do the job they were led to believe. Admittedly there is already works without a computer?; If I buy a computer would I need to take on an enormous complexity of equipment but the customer should be able to expect some basic guidance. the return on the capital investment, in terms of productivity, and how long

On word processing programmes, which was my own interest, it was not so straightforward as I might have imagined, judging from the dozen or so programmes. the dozen or so programmes on the market. Did they all have capital and lower case letters for display on the screen? Was it possible to have more than 40 characters Roger Woolnough

(too few) per line, or could it words do I think a computer go to 80 per line? How many is some kind of magic wand lines per "page"? What to solve my own inefficiency? editing facilities? How com- (It is not.)

The best advice to anyone seeking a micro-computer for business use is — beware!

Choosing a personal complicated are the commands?

The more your learn the most small businesses do not need a computer for accounting or stock control unless they have a minimum turn-over of between £50,000-£100,000 a year. He adds: "You must be able to trade off the extra profit against taking on the extra staff to operate the computer, not to mention the initial capital the hardware. Luckily there outlay and maintenance

seems to be a trend for costs."

Costs."

Costs."

Costs."

One of the most useful functions performed by a maintenance contract which small computer is mailing usually costs at least 15 per and invoicing and Mr Robin-son believes it is possible to cent per year of the original son believes it is possible to capital outlay — quite ex-pensive. The small print of £5,000 and £7,000 which these contracts also needs would cover the needs of the examining closely to avoid small businessman but he pitfalls over the exact mean-could 80 up to £18,000 to ing of "24-hour service" and £20,000 if future expansion

facing the customer is the question of documentation for both computer and programme. Manuals are on the whole badly written, often too full of jargon, and quite often have many mistakes, particularly those dealing with the actual programmes to run on the computer.

The Osborne Computer Corporation produces some of the best software and some of the most readable and understandable manuals.

Adam Osborne, the man behind the company, a kind of American answer to Britain's own Clive Sinclair the first to produce a mass at your own system of selling computer for under paperwork and see if that can £70, has also just come out be improved before even thinking about a small com-puter. One man who is very outspoken on the subject is with an unusual software-hardware deal in the form of the Osborne I computer. He offers a package deal of five standard programmes including accounting and word-processing and mailing, along with a new mini-micro computer.

Mr a pne he ing en. the ike sex in all appears and nd-

his yed urly null aed ons ber frick, A lac-

It was the Osborne I which I finally settled on. No larger than an electric sewing machine it is entirely portable, complete with twin-disc drive (enough memory to store a small novel) and tiny monitor screen (it can also plug into a larger video screen). The complete package with programmes costs about £1,250 plus VAT and is just the thing for the wandering journalist. He can plug it into his car or boat battery system, and it will even fit under an airline seat. In time, and unions permitting. I could write this article, which started life on the Osborne, anywhere in the world, hook it up to a telephone and send it direct for editing and typesetting to the office.

Michael Frenchman

1982 is the year of Information Technology.

It is the ideal opportunity for an exciting business to communicate to everyone its ambitions and achievements on a scale that has never been possible before. In particular, it will stimulate the interest of existing computer users and first-time purchasers alike.

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Jnions: still in benefi

job losses from the introduction of new machinery and the economic recession are having to re-think their approach to pay bargaining and in some cases fight for their survival.

their survival.

The various predictions of job losses caused by technological advance, with unemployment figures perhaps as high as five million by the middle of the decade, have wrought from the unions a new negotiating approach which is based on no compul-sory redundancies and a rapid move toward shorter

working time.

In addition to the jobs threat, unions are also concerned about the quality of work that will be left for those still in employment, model union bargaining procedures insist that negotiators pay attention to the technological implications on job satisfaction, health and safety and other related issues.

that their basic attitude toward new technology is one of hostility and resistance but they are adamant that the new technologies should be harnessed so that the benefits are shared equally with the workforce. The central union philosophy is perhaps best summed up by Len Murray "It is not just a question of accepting the new technology or fighting it. The issue is how we can maximize its benefits and minimize its costs, and en-sure that its benefits are equitably shared," the gen-eral secretary of the TUC

The TUC has played an increasing role in organizing education forums on new technology for negotiators, but a great deal of research has also been done by individual unions. Union officials believe that

the advent of robotics in industry on a wide scale is some years away, in spite of their appearance on the their appearance on the assembly lines at Ford and British Leyland.

Tim Webb, a national officer of the Association of Scientific, Technical and Managerial Staffs (ASTMS),

and the TUC's representa-tives on the Year of Infor-mation Technology committee, thinks that the unions are about to face the "second wave" of new technology. That would mainly come in

the areas of banking, insurance and finance, while the first wave in the elec-tronics industry and clerical areas is already here. Mr Webb said that the effect on industry electronics which was in the first place responsible for designing the

systems, has been like "the sword that turns on its self" and he gave instances of big job losses in the television manufacturing

industry. He hopes that the Year or Information Technology will focus attention on the problems as seen by the unions and open up a debate on the changes that are necessary if society is to be able to cope with the new working sys-

Mr Webb wants to see the Mr Webb wants to see the Government's commitment to the Year of Information Technology translated into providing extra funds to cope with the structural changes needed in work and leisure, brought about by the lower demand for traditional forms of labour.

That theme is central to

That theme is central to The Leisure Shock, a book published in the summer by Clive Jenkins and Barrie Sherman, respectively general sectetary and director of research of ASTMS. They suggest that the words "work" and "leisure" should be removed from the vocabulary and replaced by "activity" "usefulness"

They paint a gloomy pic-ture of the consequences if new technologies are introduced without changes in attitudes, particularly to the work ethic.

A "slave society" should be introduced with new machines being the servants of workpeople who should then have much greater leisure opportunities. Jen-kins and Sherman say that unemployment pay should be raised to more realistic levels, financed by the increased profits flowing from slimmed down and more efficient industries, and they believe that the edu-cation system needs to be more "life oreintated."

In the book they argue that it may even be too late now to start bringing about the changes that are needed because it will take many years to bring about the necessary change in attitude to the old fashioned work

The authors express concern about the growth of fringe political parties of the right and left and the feeling of alienation among young people, caused, they believe, by the recession and high by the recession and high levels of unemployment. The emergence of a Clockwork Orange' society is a nightmare but one coming closer to reality each day that passes without positive

action," they say. unions' Trade demands for smoothing the introduction of new tech-nology include consultation and agreement before its

implementation in plants, big re-training programmes and new forms of redundancy

Employers, too, recognize the value of consultation with their workforces. A pa<u>y</u>ments. recent survey by the Confederation of British Industry pointed out that those companies engaged genuine employee co enthusiastic tation were enthusiastic about the results, which included a more acceptance of new

acceptance of new technology by their workforces.
Retraining and relocation
of workers on the scale
imagined by the unions
would require large government funds and the changes
in industry and society
should be brought about in should be brought about in the framework of a planned economy with large measures of state intervention, the

unions argue.

The TUC laid great store on a joint statement on new technology agreed in long negotiations with the CBI. negotiations with the CBI. The statement, which laid down basic principles to be adopted in the introduction of new machinery was approved by Congress last year, but when it was sent out for ratification by the CBI, its members objected and vetoed it being signed

and vetoed it being signed.

There was apparently concern among the companies that the statement went too

that the statement went too far toward accepting union philosophy on shorter hours and redundancies. The TUC's education department has produced a series of guides for affiliated unions and shop stewards on negotiating practices to be adopted with employers. One says: "There are real choices to be made about the pace, type and social effects of technological change. It does not have to occur at the expense of union members' jobs and working con-ditions."

It goes on: "Our key aim should be to work for change by agreement. Trade unionists need to bargain for vital safeguards to jobs, skills and pay and also influence decisions about investment, products, job design work organization and so on. The ability to do this will depend on a willingness to review union organization and change it to meet the challenges that new technology presents."

Those changes involve more inter-union cooperation at plant level and the sweep-ing away of traditional rival-ries. Some of the changes are beginning to take place but progress is slow as unions defend jealously their terri-

David Felton Labour Reporter

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Educating the managers

Britain's future prosperity".

While factory automation

contributed to an increase in productivity of more than 80 per cent betweeen 1960 and 1970, today's office looks very much like yesterday's office in terms of investment in electronic equipment, staff numbers and types, and the organization and methods of working.
At a recent conference on

the new technology at work, Mr Tom Stewart, a senior consultant with Butler Cox and Partners, highlighted some of the areas which caused managers' apparent unwillingness to adopt IT, and why gains in the office are likely to be less dramatic than in the factory.

Mr Stewart believes that

the mental skills involved in office work have proved more difficult to assist or replace than the more physi-cal skills in manual work. Second, the social cost of productivity improvements is now being questioned to a far greater extent than in the 1960s. "Higher safety stan-dards, more concern about the quality of working life and a greater awareness of the implications of redundancy for the individual worker now make some of the apparent benefits of automation less attractive,"

over-estimating the rate of development. He says the most common reason why predictions fail is that "they overlook or ignore human behaviour , . . technical progress creates oppor-tunities, human behaviour turns the opportunities into reality (or not)".

Most managers see the introduction of IT as a major distruption to established organizational structures and patterns of work. That can mean lengthy arguments with the trades unions and employee representatives, especially over such sensitive issues as job evaluations, loss of jobs and changes in working practices.

At the same conference,

Mr Kenneth Baker, Minister for Information Technology, (IT) recognizes that fewer than 50 per cent of British companies are presently using IT to improve not enough discussion on the effects IT will have on the during vet according to a organization of the office. It duction, yet, according to a organization of the office. It

organization.

Mr Hamer says that the whole field of IT is bewilderwhole field of IT is bewilder-ing, "and the fact that and installs the equipment experts seem to disagree so One company which beviolently is no comfort to the novice". He suggests that management's attitude

attitude towards IT in the office should be "to look very carefully at your office, what goes on in it, how much effort each task involves, and which functions can be most 'cleanly' defined as a single entity and start with those, looking at solutions for a specific problem, rather than products which are solutions looking for problems to solve.

Mr Tom Elliott, managing director of UIMC, a manage-ment consultancy with a prime role to service the Unilever companies, is acutely aware of the resistance to change that can occur as a result of entrenched management atti-

"Managing change, which IT dictates, is always seen as a threat", he says. He sees the biggest problem as one of education. "It is essential to make managers appreciate the opportunities of technology and to stimulate them to think of ways that IT can help them in their jobs."

A major deterrent to this Management attitudes awareness campaign is, he towards IT are often hostile as a result of previous experiences.

A major deterrent to this awareness campaign is, he says, the incomplete dialogue between the potential IT user and the data processing expert, the relationship past predictions have often failed because of under, and those managers making business and those desirations. There is an area of the control of the c ness decisions. There is an urgent need, he says, for "translation" to overcome this dialogue problem. I have interviewed many

managers about technology and its role within an organization who are totally bewildered when faced with the language of the technological world. They resent the suggestion that they might be technically illiter-

Mr Elliott acknowledges that this happens within some of the Unilever companies. He believes a way to improve the situation is for all managers to be encouraged to use a keyboard and to

Mr Elliott feels that nos michon, yet, according to a significant of the strategy of the survey conducted by is, therefore, necessary to tility among managers puts a MORI**, more than half of have a more participative block on progress, and it is the British public now bemanagement style which is essential to make people lieve that "IT is essential to not always easy to adopt more aware of the benefits block on progress, and it is more aware of the benefits overnight in an authoritarian and opportunities of IT, and for them to understand its implications. This must hap-

lieves that a strong corporate philosophy towards IT helps to encourage positive management reinforcement of its benefits, is Commercial Union (CU). Its general manager for Information Systems, Mr Peter Smith, emphasises the importance of marrying technological plans to business needs. This is done under the umbrella of a corporate policy, understood by all managers, intended to give the customer a better service, with a minimal delay

in insurance handling.

By linking IT to everyday business life, the new methods gain acceptance and credence by all managers in an organization, not just the data processing and technical support staffs. Mr Smith believes strongly

in employee consultation. Part of the problem, he says, is keeping the expectation level lower than the publicity level. "There is always the fine judgment of the time factor, involving interested parties, publicizing the event, and then waiting for it to happen".

Mr Smith sees no alternative to a policy of technology being managed from the top. The mistakes can be very costly, even catastrophic, if there is no leadership. Without the right management attitudes and understanding towards people and technology it seems unlikely that Britain will radically increase its use of IT.

Companies like Unilever and CU provide a clear message: Decide a positive corporate philosophy towards T. Educate managers in a thorough understanding and appreciation of IT. Adopt a participative management style for everyone involved.

Lynda King Taylor

MORI survey: Conducted by Market & Opinion Research International among a representative quote sample of working practices.

At the same conference, Mr Malcolm Hamer, the telecommunications manager at Citibank, confessed that do simple programming, in 1,901 adults aged 15 and over that way overcoming their in 153 constituency sampling points throughout Britain.

Simultaneously, it is Survey conducted for Information Technology Year 1982.



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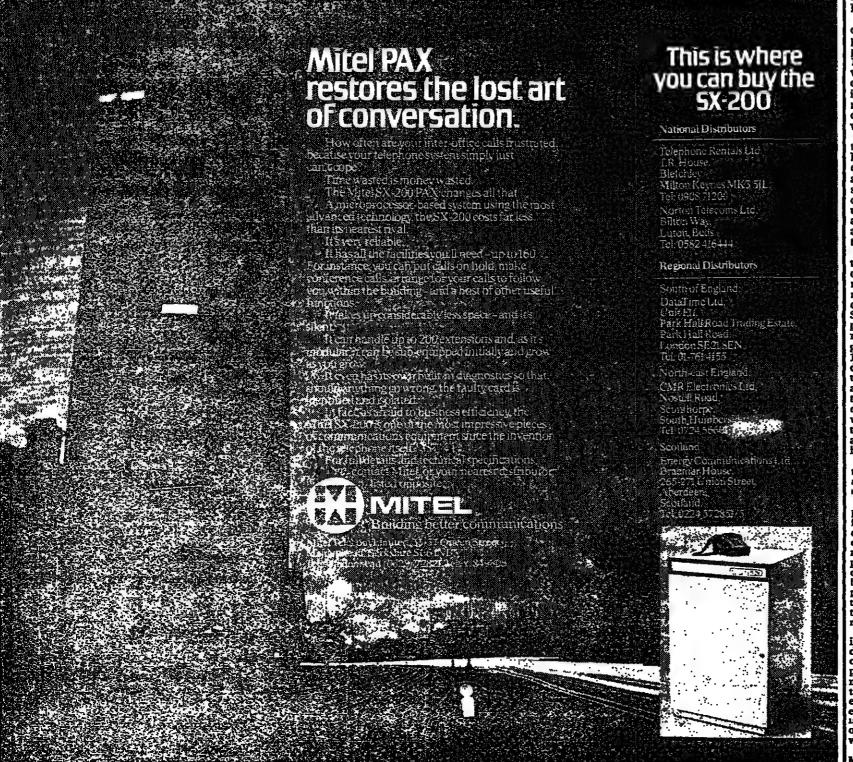
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national informance have reached sur) proportions. Now, its hant forced by the implementation of a European Convertion on data has promise another White Paper, with legislation to follow when time permits. The consequence of these years of dely is that Britain is now firmy established at the bottom if the league of Western Function Western Euopean countries in the area of data protec-tion. This was implications not only for civil liberties, but also forbusiness. Where Britain once led the field in data protection systems, it will once gain find itself having to the to catch up with competitors that have outstripped t. The missed opportunities are incalculable

> The danger of increasing computerizatin of personal, official and jusiness information have lng been recognized, and as scarcely any longer contoversial. First, data can be tored which is inaccurate, ncomplete or irrelevant, ad yet can be used as the asis for important - decisins affecting people's lives

It is now more thin 20 years

since the first stempt was

made — in a Houe of Lords Bill — to introuce a data protection law fo the United Kingdom. We till do not have one. Sinc 1961, the

tion has been the subjects of

several more hivate Mem-

bers' Bills an debates in

numerous

Parliament, numerous reports, official and unofficial, and a Government

White Paper: Almost nothing has hap-

pened. Rarely can govern-ment inaction on a subject of

Second, pople may have no idea of he information kept on them have no way of finding out, and no oppor-tunity to crrect mistakes. Third, there's the possibility that the infernation can fall into unauthoized hands, who could use itfor all sorts of hostile, eyer criminal, pur-poses. Fouth, the infor-mation coul be used for a purpose othe than that for which it wasgathered. Fifth, that because computer sys-tems can now communicate with each ther easily and speedily, th possibility is increased the comprehensive Big Brother files will be compiled on rivate citizens.

From birtl to death, every individual wl regularly find something abut him appearing in some file or other. Estimates f how many different file are kept on the average ault individual range from 5 to 50. Some may be thoght trivial in-themselves - though even library compters can now reveal that a eader took out a book on gerrilla warfare and another on Marxist ideology. Crdit card files might disclos an inappropriate spendig pattern. The Swansea Velcle Licensing Department eeps tabs on every driven change of address, and heir computer is available to be police. The lies of information kent on list of information kept on the individual — his health, income, socal security position, details of his property, his car, his ob, and so on —

Of cours, for those who have been 1 trouble with the

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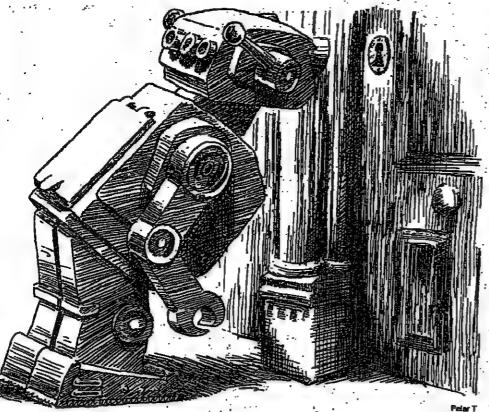
rogrammes and a

400 Computer

idd many new

nore advanced

They have you taped—and there aren't enough safeguards



police, or been members of an "undesirable" political group, even though they have particular sexual proclivities, the information kept on them all this information has been fashioned filing cabinet and is being put into computers.

حَكِداً مِنَ الْأَصِلَ

The need for safeguards is not limited to personal information. Business, too, needs protection. If a company's list of customers, or its pricing or production formulae, got into the hands of competitors, the result could be financial ruin. It is also claimed (though firm evidence was harder to come by) that British business has been losing out because clients were reluctant to leave their confidential inforhad no protective laws.

Business was not completely united in seeking tighter protection. The multinationals, in particular, were data protection laws would do to trans-frontier transmission of data - an essential activity for companies conducting international conducting business. Guidelines issued in 1980 by the Organization of Economic Cooperation and Development (OECD) have

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COMPUTER AGE HO

been largely accepted and followed, and the problem of trans-frontier data transmission is not as acute as it

Data Protection, under Sir-Norman Lindop's chairmanship, made a number of widely-welcomed proposals for the safeguarding of information on computer. Its central recommendation was that there should be an independent Data Protection Authority to regulate the way computer data was handled and ensure that the privacy of the individual was pro-

codes for different classes of data. The Lindop Committee set out the principles which should govern data protection: (1) The individual should know what personal data is being kept, why it is needed, how long it will be used, who will use it, for made known at the outset, or authorized subsequently. (3) tr should be accurate and complete, and relevant and timely for the purpose for which it is used. (4) No more data should be handled than is necessary for the purposes



dual should be able to verify

In spite of the Lindop Committee's call for urgent action, nothing happened until 1981, when the Council Convention was opened for signature. In effect, the convention does-little more means that countries which become parties to it have to implement those principles in their national legislation.
Only when Westminster passes its own Data Protection Act will Britain be able to

ratify the convention.

To the dismay of all the interested groups which have been campaigning for such legislation for years, the

depart from the Lindop proposals on one crucial issue. Instead of setting up an independent Data Protecan independent Jaia Protection Anthority, as recommended, the Government
announced that the relevant
authority would be the Home
Office itself.
As appalled critics point out, the Home Office is also a

very substantial computer user. It is the department responsible for some of the most sensitive and controversial computers, such as those kept by the police, where abuses have already been shown to occur.

The Home Office, Sir.

Norman Lindop has com-

mented, "can hardly be held

to be impartial and disin-

is a view shared by the British Medical Association, the National Council for Civil that the Home Office has been the department most responsible for the years of inaction, a fact hardly con-ducive to inspiring confidence in its proposed new role as the country's data protection authority. Britain statute books later this year (1982) or in 1983, but the debate over its content may prove highly controversial. The possibility that the Government will try to set up a system of ombudsmen to act as watchdogs over mation is unlikely to placate time, the other countries of Western Europe, and the United States, are happily carrying on with implementing their own laws, leaving Britain as in so many other fields, lagging badly behind where it was once pre-

Marcel Berlins

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Mechanical marvels of the double shift

At the Nissan plant in

Zama, factory manager Mr Nakayama outlined his philo-sophy to automation: "There

are three reasons: quality is improved, and becomes more stable; human labour is replaced by robots where the

work is very hard, and safety is improved; and there is a manpower saving."

The company has largely automated its body assembly

line, and is now working on a second generation of robots

to take over the paint shop

It is at this point that a

shadow crosses the face of

union official Hiromi Kosaka, assistant general

secretary of Jidosha Roren, the Social-Democrat affili-

ated autoworkers union.
"Our ideas are rather different", he insisted.
"We think it is very good
to have robots where the

difficult working environ-ment. However, there is a problem about unemploy-

without reducing employ-ment because domestic and export sales were good.

"But if more robots come,

union.

autoworkers'

years.

Momoe, Junko, Seiko and argue is connected with the Yuko work a double shift Japanese search for identity. plant at Zama, outside afford to take a long view of Tokyo, turning out Datsun models for the home market try's tradition of lifetime and for export. They are precision welders, and their efforts are highly prized not employment within one company means that workers displaced by innovatory techniques are not sent out of the factory gate, as they might be in Britain, but are retrained and given a job elsewhere in the enterprise. only by management but by the Japanese auto-workers

They are, of course, robots. Painted white and surrounded by a six-foot-high electrically isolated steel fence, their non-human ceaseless toil inspires a mixture of apprehension and admiration in those who see them for the first time.

them for the first time. The technicians who service these denizens of new technology have given each robot the name of a woman pop star or actress, and a coloured photograph of the lady in question stuck on the side stares out at you as the welding arm performs im-possible gyrations to weld car bodies together.

possible gyrations to weld and the final assembly line. This target should be Japanese attitudes towards achieved in four to five new technology differ mark-edly from those of British workers. They welcome industrial innovation, and their whole cultural background is informed by the assumption that industry must continually adapt to

turvive.
This outlook is encouraged by the Japanese concept of himself as a worker. Ask him what he does, and he will commonly reply "I work for company X" — rather than "I am a welder". In Japan's almost-full employment economy, school leavers exercise much less occupational choice than in Britain, join-ing a company as a hand or a brain and turning their talents to whatever job is assigned them.

there will be a problem. Of course, technical innovation plays a role in the improve-And according to diplomats with Western experience, ment of productivity, so we Japanese society is in a are not opposed to this. But process of constant change, there is a problem concernso that practically anything ing employment and the new is readily accepted. transfer of workers from one Innovation is a powerful place to another." His answ-driving force, that some er to that: "There should be

tation between labour and management."

There was consultation when the robots were first introduced four years ago. Those few employees who were displaced were found

were displaced were found alternative jobs.

Similar experience was reported from Asahi Shinbun, the mass-circulation bun, the mass-circulation Tokyo daily paper, where the introduction of computerized printing technology did not lead to lay-offs. Some workers were "loaned" to associated companies, with a wage-protection guarantee. Others were retrained and kept within the paper.

That is employment protec-tion on a scale that British workers can only dream about, and it may not survive indefinitely in Japan. The lifetime employment system that underpins job security in the face of rapidly-changing technology is giving way slowly but surely to a more flexible system.

The huge gap between starting pay and the top wages paid to men in their mid-fifties, nearing retirement is narrowing rapidly.
Older workers tend to adapt
less easily to technical innovation, and companies are
being obliged to reward
adaptability and skill as well as long service.

But while the Japanese economy continues to expand work is hard, or there is a and national wealth keeps on growing, the unique job-for-life system it supports will permit the smooth introducment. Up to now, we have tion of new technology, been able to introduce robots which in turn contributes to which in turn contributes to economic growth. It is a magic circle of prosperity that British companies intent upon going in for new technology in a big way are likely to find that union retraining and reemployment, Japanese style, in fac-

Paul Routledge

Below and on the next six pages the impact of this technology on our work and play is examined. Articles cover the effect on health, education, the office, home and finance

Health on the bleep

Clap your hands and a white plastic box about the size of a cigarette packet bleeps back at you. The Homer Locating device, helps blind people to brientate themselves in their homes and costs 56.33. It is Information Technology at its cheapest. At the other extreme £10m is the absolute minimum that the National Health Service will be spending on mainframe computers in the current decade.

Information Technology in health care comes in all sizes, shapes and prices. But it is the development of the mini and micro-computers that are likely to have the biggest impact in health care.

For while it may be hard to believe today, both the British Medical Association and the Royal College of General Practitioners believe that by 1990, 80 per cent of doctors' surgeries could have a micro-computer installed. Dentists are likely to take the same path. In hospitals,

computer systems are being developed that help doctors to diagnose more accurately and to prescribe more effectively and cheaply. Other systems are being developed for handling the

endless administration hospitals. It is in general practice

that most patients are likely to see the impact first. So far only about 200 to 300 of the country's 27,000 general practioners have actually got a computer. But for an outlay of £3,000 to £11,000 tax deductible, of course - a GP can now equip himself with a system that not only makes his life easier, but actually makes him a better doctor.

The system will, of course, do the accounts, and other mundane chores including ensuring that all the myriad fees a doctor can charge are claimed. The money saved can make the computer an attractive proposition in its own right. More importantly for the patient, the computer can maintain a patient register that can be made to print lists of patients by age, sex, disease, or other classifi-cation. Thus it can print a list of all girls in the practice aged between 10 and 13 who need to be called for German measles vaccination; elderly patients with bronchial trouble who would benefit from influenza vaccination can be printed out at the start of each winter; appointments for regular screening for cervical cancer can be

Fully computerizing orthodox medical records is prob-ably not worthwhile — large amounts of storage, which is expensive, would be re-quired. But key facts can be tagged to each patients computer file, such as al-lergies to pencillin or other drugs, or the fact that a patient is diabetic, or has high-blood pressure.

Drug prescribing can also be markedly improved with a computer. A selection of possible drugs can be printed up on the screen, together with their costs, and warnings of possible side-effects and interactions.

The result can be choice of the cheaper drug when a choice exists, the avoidance of interactions that doctors would not normally carry in their head, and the possibility of printing out a weekly or monthly summary of what has been prescribed.

has been prescribed.

Doctors who have done this find their prescribing habits change when they start to ask themselves whether dozens of prescriptions for minor tranquilliers are really necessary in every

Compatibility key issue

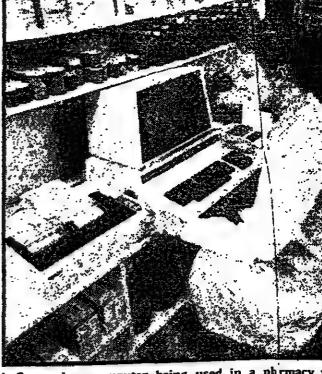
Repeat prescriptions, too, can be handled by the computer, with the added advantage that after a given number the computer will insist that the patient is seen by the doctor to ensure that the drug is still needed. A key question for the future is whether the various

systems on sale and being developed can be made compatible, both with each other and with hospital and regional computers, as they are installed. That would allow files on

drug information, for example, to be updated from a central source, so that the latest information was automatically available to each GP. The result would be virtually to impose better prescribing on family doc-tors. Educational pro-grammes to keep GPs up-todate could be provided.

Another advantage of such link-ups would be access to the diagnostic aids being developed. Already there are programmes to help diagnose and/or provide the outlook for acute chest pain, abdominal pain, gastric bleeding, jaundice and bead injuries. One of the most advanced, the computer-aided diagnosis

the computer-sided diagnosis of abdominal pain, has been developed at St James's Hospital, Leeds, by Dr Timothy de Dombal. It has proved so successful in helping relatively junior staff to improve the accuracy of their diagnosis, that it is now being tested on United States nuclear submarines for use nuclear submarines for use by paramedics to decide whether the submarine needs to put back to port with a sick patient, or whether the case can be handled on board the submarines, which do not



A Commodore computer being used in a phrmacy to produce labels for prescribed drugs.

Confidentiality is the key issue when it comes to records — either as comete records or as selected items for an in-patient information system which would be used for health service management and

planning.
An NHS committee has already produced recommendations on a national in-patient information system that can be run manually, or on a computer, and pilot projects are under way.

The British Medical
Association, which has led

the way in insisting that access to computerized medical records is safeguarded, will be watching these developments closely. Its objections to the lack of safeguards in the pre-school child health computing project — which includes among the recorded information items such as whether the nother has had an abortion, or is a single parent — led to that project being held up for 2½ years. Only recently, with extra safeguards built in, has the BMA agreed to the pilot projects soing ahead.

projects going ahead.
Dr John Dawson, undersecretary at the BMA, said
"We would never agree to
the holding of medical records on a single national system which took control out of the hands of the doctor. On the other hand, it is clearly desirable if one hospital can telephone another where a patient has attended and get the past records from a computer down the telephone line. There would have to be a system whereby access to the information was limited to specific individuals and the hospital would have to be able to check that the request was genuine, but the advantages of such a system are obvious both for the patient and the doctor."

Studies at Leeds over the past eight years have shown that using the programme, the accuracy of hospital doctors' diagnosis of the cause of the pain has risen 42 per cent to 70 per cent. Similar results have been obtained at Airedale General Hospital in West Yorkshire, and at Bangour General Hospital in West Lothian, and it is hoped to extend the programme shor-tly to a further eight to 10 hospitals in Britain finally to

prove the system.
It works, in part, by forcing the doctor to ask all the relevant questions and make the examinations necessary, which are then checked off on a sheet and fed to a computer.

The computer then compares the case with 6,000 others, collected from others, around the world - far more than could be within any one doctor's experience—and offers predictions of the diagnosis. This it only delivers after the doctor has offered his verdict.

The result is not only better diagnosis, but a mar-ked decline in unnecessay operations which not only save money, but reduce risks to patients Dr de Dombal emphasizes

that the computer only provides advice — the doctor makes the final decision. "What we have effectively done is put the experience of 500 doctors from around the 500 doctors from around the world into a small box". Dr de Dombal says. "If you do that, the small box is going to get pretty good after a while. All that experience is available to the doctor trying to diagnose acute abdominal pain in the middle of the night, and if that doesn't help him, probably nothing will."

With the aid of the computer, junior doctors, once

puter, junior doctors, once trained on the system, can bring their diagnostic accu-racy up close to that of an experienced doctor within a few weeks.

Dr de Dombal says that in the next decade, if all goes

well, such programes could become fairly commonplace in general hospitls, covering perhaps 10 per cut to 20 per cent of medicine where the problems can be clearly defined, 'There are whole defined. areas of medicin, however, that are never ping to be-covered by the sort of programme. The reas where medicine is still a much an art as a science and you are relying on the idement of

shrewd consultan The equipmen necessary to run a programme such as that for scute abominal pain costs about £000 now, against £250,000 1 years ago. If hospitals adopt omputerization on a lige scale, however, the software could be easily tailored a fit into a system that woul also run. patients administration, re-cords and the oter services a hospital needs.

£30m spent ad little result

Although item such as payroll have beer computerized in the NHS pr as long as they have anythere else, the more medical ind experimental side of NIS computerial side side of NIS computerial side s ing has a rater sorry history.

Many of the first 15 projects for patiet administration set up by he Department of Health n the late 1960s ran into seous troub-le. Some £30m was pent in a decade with life tangible

criticism.
The DHSS, apparently once bitten, becate cautious about further speriments, and in 1980 the dairman and three leading members of the department's conputer reand committee resided. They warned that stain was falling behind it he use of computers in hositals and primary care, an baulked particularly at the efusal of the department to back two particular projects.

One, that is sti issue, was to complerize the work of family pictitioner committees, who maintain registers of doctors patients and pay the family The other was to sped £2.5m over eight years, intilling a comprehensive perican computer system called Promis at the Roy Free Hospital, in London.

That system wouldvirtualhave run the Patients' records worl have been computerised missions and dis handled, and labator stored, while the tocks, costs, uses and interacous of stored, while the the drugs in the holial's pharmacy would all have gone on the computer complete with a virtual tetbook of medicine which in would have provide ient teaching and diagnosis. The system cates maintain that ning costs as an exp would have been matched by its savings per-haps £29,000 a year in saved paperwork, and 15 pe cent or £189,000 a year d the drug bill, plus all the beefits of improved efficience fewer lost notes, test and the like. It was, however,

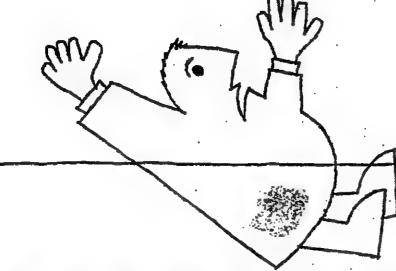
is require.

The dust from the nations is only now se and while the advoca romis figure omputer Policy is getting underway to the expansion of comming in the health service.

Some of the early exerting mental projects that surfeed are now producing food and Mr Galan and Mr Galan and Mr Galan are now producing food are now producing food and mr Galan are now producing food are n are now producing food results, and Mr Geton Roberts, chairman of Oford Area health Authority and chairman of the new committee, says he is impressed by the amount of worsthat has been done in MRS has been done in computing.

The problem is stanfardization. As yet the complete has no budget. When figets one it seems unlike to one it seems unlike support "turnkey" pr for complete computerizion of hospitals. Rather it we be looking for the development of compatible packages.

Nicholas Timnins



Have you recently found yourself becoming an involuntary non-profit organization?

The earnings reports of many companies are experiencing a widespread outbreak of parentheses. (We mean those depressing bow-legged punctuations that signify operating losses in balance sheets.)

In fact, the problem of diminishing profitability is widespread enough to have acquired an aura of ... immutability, something like a law of contemporary economics...making it sound almost audacious to suggest the problem is solvable.

Perhaps it's time for a little audacity...and a Data General ECLIPSE® computer.

ECLIPSE is a complete information system that will never be accused of insufficient ambition: its mission is to help cause immediate and dramatic improvement in your bottom line.

It does this by helping you instantly identify

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inventories carried unprofitably, back orders being filled tardily, cash flow problems...those areas where profits often erode unseen by management.

It isn't surprising, then, to find an ECLIPSE computer turning up in so many profit-making organisations, like Express Dairy Foods, North Thames Gas and Guinness

Group Sales (Ireland). In fact, many of the largest and most successful British companies in banking, industry, distribution and services are using Data General computers. Is this a stunning coincidence or a considerable profit opportunity?

Those who still believe in opportunities are invited to write for particulars to: Marketing Communications, Data General Limited, 3rd and 4th Floors, Hounslow House, 724-734 London Road, Hounslow, Middlesex TW3 1PD. Tel: 01-572 7455.

Data General

A child shall lead them and late starters follow

Children respond extraordinarily well to information technology. As IT Minister, Kenneth Baker said: "they are my best fellow missionaries" in spreading the IT

Anyone who has seen a 12-year-old computer wizard programme a ZX81, or even a three-year-old playing with an electronac toy, will know just what be means. So will teachers who have been taught computing by their pupils at sixthform seminars — an increasingly frequent occurrence, according to Mr Baker.

No, the problem of introducing IT into education is not acceptance by pupils or students. They love to get their hands on a computer keyboard and learn remarkably quickly how to use it. The barrier is mainly financial — the shortage of money to buy

hardware and software.

But there is also a human obstacle in the shape of certain school administrators and teachers who quietly oppose computerized teaching aids, partly out of a sincere belief that education will suffer if the buman element is reduced, and partly because of

the general Luddite reaction to new technolgy which you do not understand and which may threaten your job.

The Government is trying to reduce the financial barrier to the educational application of IT, through schemes such as the recently introduced Micros in Schools programme. Many private individuals and industrial companies are also giving schools and colleges financial aid to introduce new adventigant technologies. educational technology, or lending or donating the equipment itself.

The human problem is not so simple to solve. The Government is doing its best, by supporting microcomputer courses for teachers through the £9.5m Microelectronics

But what is really needed is a revolution in basic teacher training. Mr Baker would like to move to a stage where every teacher going through a teaching college has a period of two or three months learning where the micro fits into the educational process". Unfortunately there is no sign of

over the past three years, including several West Micros including several West Indians with no formal qualifications, and — most

Britain has two schemes to put a microcomputer into every secondary school, Under the official Micros in IT jobs. However the National Computing Centre had already proved that unemployed school-leavers can be Schools programme, the Department of Industry has approved 1,900 applications for 50 per cent funding towards the cost of a micro-computer. And micro entrepreneur Clive Sinclair claims to have signed up 2,300 schools for his alternative scheme which expired in December.

Mr Sinclair sold any proved that unemployed school-leavers can be enrolled a far higher proportion of the student-age population than on this side of the Atlantic; the United States does not have the Opportunities to 1,470 16 to apply a conventional to obtain a convention and the convention and approved 1,900 applications

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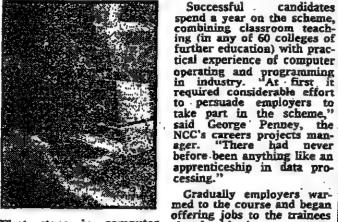
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Times

Mr Sinclair sold any secondary school his 2X81 micro with a 16K (16,000 agency) of £3.1m, character) add-on memory Although all for £65 — half the normal Scheme applicants Although all Threshold Scheme applicants are unemprice. He launched his own scheme after the Department of Industry excluded the Sinclair micro from its offiviewed and tested for a whole day before they are accepted. (The four written tests examcial programme. The Government offers grants towards the purchase of just two models, the RML 380Z sold ine general reasoning, spacial by Research Machines of Oxford for £1,680, and the BBC Microcomputer made by Acorn of Cambridge (£260).



technology. Schoolchildren often adapt better than their not have dreamed of employ-elders to complex innova-ing because they had no academic qualifications.

placed with them - young-sters they would previously

On average, over the first five years of the Threshold Scheme, only 10 per cent of starters dropped out before the end of the year. And 90

per cent of those who finished the course had found a full-time job within

In educational circles abroad Britain has three world-famous institutions; Oxford,

Cambridge . . . and the Open University. Few people in this country realize how

much educators elsewhere, and particularly in North

America, envy and admire the OU. They see it as one of a handful of bright sparks within Britain's overall repu-tation as an international

The Open University's importance within the general story of IT lies not in the technology it uses — there is

nothing especially novel about that — but in its pioneering role in the development of "distance learn-

ing". It was the world's first university founded to deliver

higher education to the homes of people who did not have the time, the money or

Distance learning is going

to be education's great growth area in the years ahead, and the intelligent

home computer/information terminal will obviously be an ideal medium for it.

But in these primitive days

the Open University relies

ant one, to the basic texts. They are also supplemented

by tutorials, sometimes over

the phone, and by an annual

Recently the OU has been

expanding its continuing

education activities. Severa

non-degree courses in the field of IT are now available for professionals who want to update their skills.

North American is geo-

summer school.

the inclination to go to a

Distance

learning

Government scheme was launched last June, it was restricted to the schools thought to have no computer equipment at all. But from this month the grant has been extended to schools that do already own

Although Kenneth Baker is confident of reaching his goal of putting a micro into every secondary school by the end of this year, that achievement will not be much more then a symbol of the meed to bring education into the IT age. For a single computer in an average high school will allow only one hour's use per pupil per year.

Progressive local authorities are therefore investing more of their scarce funds in additional com-puters, to give all pupils significant "hands-on" exsignificant names of car-perience. And particularly imaginative authorities are linking together the micros in several schools, allowing them to share their databases

One example is North Tyneside Borough Council. It feels that a network is the only way to provide the large amount of data storage that is required if the computers are to be used across the whole curriculum. Otherwise, the council feels, "there is a tendency for mathematics and science departments to retain the teachers in other subjects can be unhappy about using a system that is felt to require knowledge of advanced mathematics."

mainly on written course materials sent to degree students through the mail. The BBC television programmes, the glamorous side North Tyneside is considering the possibility of the local authority mainframe computer to provide mass data storage for all its schools. The problem is that the data would have to of the OU, are only a supplement, albeit an importbe transferred fast when a school needed it. Ordinary telephone lines are too slow and special data lines too expensive, so radio transmission is being investigated. The council says the main difficulty is obtaining Home

Job training

One example is "Micro-processors and Product Design: Course for Engi-The Government has received much publicity recently for neers". It is a 150-hour self-paced course for engineers its decision to set up a national chain of about 20 and designers who are con-Technology sidering the introducton of Centres, to give unemployed microprocessors in their school-leavers training and products. It includes extensive practical work on a work experience in microelectronics and computer microcomputer system supplied by the OU. The full skills. They are based on the Notting Dale Technology course package costs £395. Centre in London, which has trained about 60 teenagers

Education Project.

process". Unfortunation that happening yet.

graphically fertile territory for distance learning, be-cause it has many very isolated communities. But importantly - placed them in the development of an American open university has been inhibited by the fact that for many years its traditional colleges and universities have the Manpower Services to obtain a conventional Commission (the sponsoring degree and who are the prime

targets of the OU in Britain. Nevertheless several events in the past year have encouraged the many American OU supporters. Most important was a \$150m gift to the Corporation for Public Broadcasting from publishing tycoon Walter Annenberg; The money is to be used to produce higher advantage corporate which will education courses which will at first be broadcast by conventional radio and television but may later be disseminated by new comtechnology. munications the Annenberg funds will be used to develop

new techniques for distance learning, including video-discs and interactive cable television (which would allow the student viewer to respond to the teacher on the screen). Another encouraging event in the United States was the country's first nationwide distance learning project. The National University Consortium as it is called, started on a small scale with a network of seven univer-sities and seven local television stations, and courses bought from the British OU (which has an office in New

York). It is hoping to win more funds for expansion from Mr Annenberg's gift. Distance learning is fur-ther advanced in Canada, whose Anik satellites are beaming educational pro-grammes to remote Eskimo villages in the vast Arctic wilderness. Several Canadian provinces are starting their own open universities; the latest is British Columbia's Open Learning Institute, which is being set up with assistance from Britain's OU.

Robots to the rescue.

be seen, by the rapid developments in microelectronics during the past decade. To an important degree the appli-cation of these developments to industry has been characterized by the manufacture of microprocessors which has opened up an almost unlimited prospect for the automatic transfer of engineering data to management control. But although the fundamental technology has been available for some time it is only now becoming a feasible industrial application as the cost of electronic control devices begins to fall and their reliability and power increases.

The stages of progress in industrial automation can be seen clearly in the development of machine tools. In the past 20 years there has been large-scale adoption of numerical control (NC) machines and more than 40,000 have been installed in Britain. The next stage was to link together a number of NC machines through a data transmission network to produce direct numerical control (DNC). A further stage was to bring together a number of machines under a single computer numerical control (CNC) system.

Clive Cookson controlled transport of work

The industrial revolution now taking place in Japan, the United States, some European and other countries was made inevitable, it can now the seep by the residuant devalue. in which the replacement of operators by a central computer control can lead to an unmanued workshop of the kind now operated by Fujitsu Fance in Japan. In November 1980, Fanue, the world's leading manufacturer of NC equipment, opened a factory near Mount Fuji in which industrial robots, controlled by minicomputers, produce other industrial robots with-out human intervention.

out human intervention.

The Fujitsu Fanuc plant is the world's first factory to be unmanued except for minor machine operations and administration and it has naturally astonished visitors, but similar advances are now being made by the United States, France and West Germany. Britain, too, is to develop an FMS through the recently announced parmerrecently announced partner-ship of the machine tools division of Tube Investments and Taylor Hitec, a specialist robotics company.

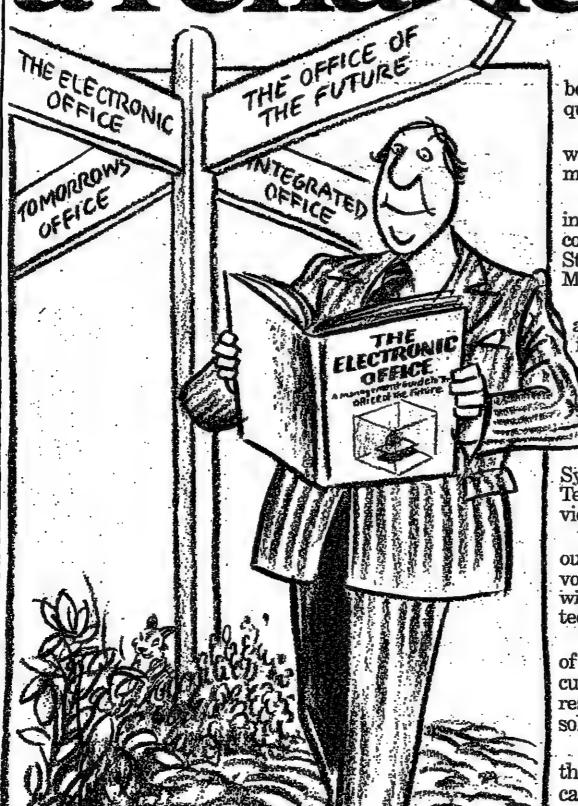
Commenting on what will be Britzin's first venture into FMS, Professor Robert Bell of Loughborough University said: "There is just time to put this right in Britain. We have five years to put it alting the progener or our manufacturing industry will so into ing industry will go into accelerated decline."

There can be no doubt that that warning was needed so



Simply years ahead





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A computer keeping an eye on stock control.

When I make mistakes, my ET 121 corrects them... well I press a button to correct them instead of using a

Talk with any secretary and she will usually say that Information Technology has taken the routine, monotonous chore out of her job, and just as the golf ball typewriter was the perquisite to entice secretarial talent, now it is electronic text editors or word processors.

The cost effectiveness of

The cost effectiveness of word processors may be questioned, but for the user there is no doubt that office technology can make for more job satisfaction.

A couple of years ago
Aline was one of a number of
copy typists in the head
office of one of France's
large regional banks. Her
work, she said, was boring,
repetitive and her morale was low. "I did not have to think or even look for anything... I just typed exactly what was written out for me, and spent most of the day thinking about other things".

Audrey constantly had to do reports. She works in one of the larger chartered accountants' offices in the City Her boss constantly changed sometimes the report was re-typed as many as 10 times. The constant repetition and irritation it caused made the morale around the office

For both of them their

Taking the slog out of office routine

This article has been written on a piece of electronic equipment, a word processor, that makes my electric typewriter as out of date as a quill pen.

When I was a simple work with the work of the company of the compa for duplicate letters, stan-dard text work and long reports, it has made their working lives more rewdard-

ing, less tiring and physically demanding.
The Civil Service concluded an investigation last year into the economies of using word processors for 30,000 typing secretarial staff. The report said that to justify

this order were not generally achieved on the day-to-day work by the majority of operations". However, the report goes on to comment that worthwhile improvements in productivity are possible.

As a basis for cost com-parisons, word processors were priced between £6,000 and £9,000 against an electric typewriter costing about £400.

The report did suggest that typing secretarial staff. The report said that to justify replacing an electric type-writer with a word processor, productivity increases of between 43 per cent and 72 per cent were required, depending on the labour accommodation and equipment costs.

The report says "mean productivity improvements of the report says "mean productivity improvements of the report says "mean productivity improvements of the reliability of certain models and the difficulties in getting after-sales goes wrong equipment costs ing on average £7,000 is stable or even reducing ing on average £7,000 is laying idle. In addition there is the cost of the operators' time, which in London is averaging £6,500 a year, according to one of the maior recruitment agencies. Some managers feel that the real reason for installing word processors in their trend towards very goes wrong equipment costs. with the "trend towards very

Typists do more

than typing

Administration 27%

tion/Word Processing Associ-ation has complained bitterly about manufacturers concentrating their efforts into selling but little time being devoted to operator training and after-sales service and support. When the machine goes wrong equipment cost-ing on average £7,000 is laying idle. In addition there

... but bosses

think less

than they imagine

'THOUGHT-WORK

trated when they could not efficiency, and that the finish a report because of access to information technish on their word processors.

The International Information and the harmessing of text editing improves their overall performance.

A recent analysis by Office 1

A recent analysis by Office Management Systems Corporation and Booz, Ailen and Hamilton, management consultants, identifies how to make boss and secretary more efficient in a number of

However, many secretaries. are not certain just how II. can help them do their jobs better, and they rely on their

better, and they rely on their managers — or the media — to make them more aware.

One of the grievances here is just where to go for positive information and non-biased advice. A secretary who has an IBM golfball typewriter is likely to turn to her IBM salesman for advice; but if she has no machine. but if she has no machine loyalty then she may find the loyalty then sne may find the IT world baffling, with its proliferation of products, prices and permutations.

Conferences and exhibitions like Info 82, the first prices are conferenced in the conference in the

bitions like Into 82, the first major IT conference in February at the Barbican Centre, provide an insight into product variety. So do walk-in retailers like the Xerox shops. But many secretaries still complain bitterly of the technical jargon of the manufacturers. One secretary said to me "I One secretary said to me "I wish they would explain their explanation!

A report to be published soon by Butler Cox and Partners, The Market for Office Technology, examines continued on next page

Continued from previous page

far as Britain's introduction of FMS is concerned. But there has, in fact, been a readiness to employ indus-trial robots in Britain that seems both surprising and encouraging. It is officially estimated that there were 500 robots in British industry at the end of 1981. This compares with 1980 estimates of 14,000 in Japan, 3,255 in the United States and 850 in West Germany but it is important to bear in mind that the definition of a robot varies

However, a recent survey by the British Robot Association of 370 industrial robots in Britain showed that they were installed by 140 to 180 users. In Europe only West Germany and Sweden report more users.

they are used most frequently in such operations as: paint spraying and other surface coating; spot and arc welding; machine tool chang-ing; die casting removal; injection moulding; process machining and general hand-

In a report to be published this month by Inducon, the international mangement international mangement consultants, detailed case studies of nine British com-panies show why they in-stalled robots and how they have benefited.

The companies studied were: Ti Creda (manufacturers of electrical appliances — cookers, washing machines and kettles). Two washing RAMP robots, together costing £40,000, operating at the Blythe Bridge factory near Stoke-on-Trent. Employed on spraying heavy electric spraying heavy electric cooker ovens and panels with

equipment). Employs about 1,600 mainly on a single site in Ipswich. Operates one Trallfa robot for arc welding parts of ploughs. Cost of robot and welding equipment £35,000 plus £6,000 for rotary mounting table.

mounting table. BL. Thirty seven robots operating mainly at Long-bridge on spot welding of the Metro body frame. Laurence, Scott & Electro-

motors (electric motors and switchgear). One of three Norwich plants is using two Electrolux MHU Senior robots to load and unload a notching press. Cost was £26,000 and the benefits have included improved machine utilization.

JC Bamford Excavators. Employs about 1,500 people on a single site at Rocester, Staffs. An AWP Hal pro-grammable welder was in-Robots are now capable of cooker ovens and panels with undertaking a wide range of routine industrial tasks Ransomes, Sims and normally performed by Jefferies (agricultural human operators. At present machinery and grass cutting wavin Plastics (extrusions processor controls, of and small companies.

Another important group processor controls, of and small companies.

Lansing, Bagnall (electric fork-lift trucks). The companies.

Another important group of techniques which have fork-lift trucks). The companies of the companies of the controls of the companies of the companies of the controls of the companies of the c

and mouldings for the gas, water, farming and building industries): Employs 1,000 people at sites in Brandon, co Durham and Ashford, Kent. Two Unimate 2000 robots are operating at Brandon, un-loading large plastic injection

moulding machines. They cost between £40,000 and £50,000 each and, operating for 24 hours a day, seven days a week, they have led to significant improvements in the utilization of expensive injection moulding machin-Metal Castings (Worcester) (diecastings for the auto-mobile and other markets). Employs some 600 people.

The company has pioneered the use of robots for diecasting in Britain. Six Unimate 2000B machines in operation case studies demonstrate that installed at a cost, including robots can be employed sutomation and micro-

the point of starting production at the Basingstoke plant. The cost is \$30,000 and the robot will be employed to arrange electrical wire into a loom configuration for use in the control circuits of fork-

Filing 4%

lift trucks.
WCB Clares (trolleys, baskets and shelving systems for shops and supermarkes). Employs 245 people at Wells in Somerset. In 1977 an ASEA IRb6 was installed for arc welding side frames for stacking trolleys. Two more were bought later and a fourth robot is at present on commissioning trials. Cost of the first was £57,000 and the next two cost £45,000 each. The fourth will cost £37.000.

Quite apart from the speci-fic benefits obtained these and small companies.

have the potential to trans- niques have already been form manufacturing industry over the next five years is incorporated in the concepts of Computer Aided Design (CAD) and Computer Aided Manufacture (CAM).

CAD is much more than applied computer graphics or the automation of the draw-ing office. It incorporates modelling, analysis, simulation, optimization and visualization in designing for production. CAM incorporates the NC, CNC and DNC technologies as well as robotics and designing technologies as well as robotics. tics and automated testing with all aspects of computer-based manufacturing control

and procurement. It is claimed that CAD and CAM, when linked together, not only improve design and manufacturing technology but also the efficient management control of the business, especially when they are integrated through a data-base system. CAD/CAM tech-

used in many industries in Britain and abroad. They include electronic, mechanical and electrical engineering, ship design, building and the offshore industry, cer-amics, glass, furniture, fab-rics, cartography, mapping, land management, civil engi-neering and the design. neering and the design of office layouts.

in stock control, too,

computers are already playing a major part. Hepworth, the British retail clothing chain, have installed a system to replenish their shops daily after sales details are trans-mitted to the head office computer in Leeds. But the technique in Japan is even more advanced. There, the computerized stock-control system is called Kanban which, roughly translated from the Japanese, means "just in time". The system is so tightly organized that Western observers have been amazed to see the minute

stock levels carried by such companies as Toyota.

Although the use of robots has so far been concentrated in manufacturing, other

important growth areas are appearing. These include appearing. These include marine development, nuclear industries, medical and hospital work, transportation agriculture, forestry and construction. A public service which is likely to be robotized in the future is firefishing and it is appearance. firefighting and it is expected that domestic cleaning will be eventually carried out by robots. In construction, the erection of steel structural frames and the cleaning and painting of bridges and buildings are all likely to be

assigned to robots. **Industrial Robots will beavailable at £90 from Inbucon Management Consult Knightsbridge House, Consultants. Knightsbridge House, 197 Knightsbridge, London SW7

Alan Grainge

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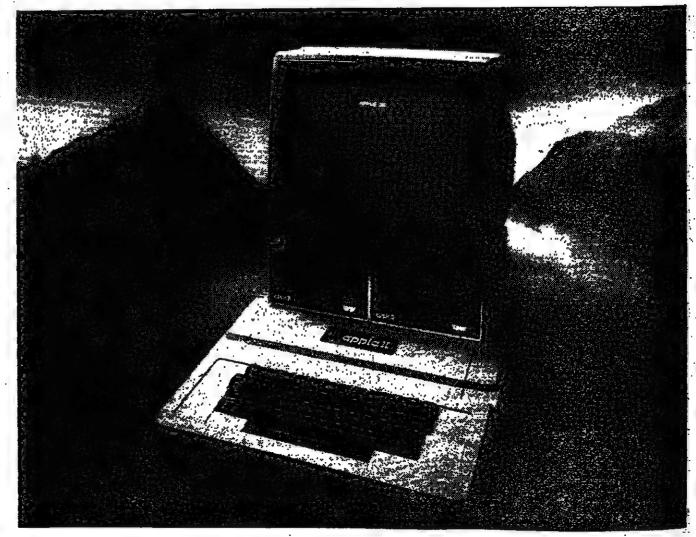
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which allow: Detwork director, Mr. managemen: have over selection of

ranges from tel, Herald tems, to mainificant computers

In Britain, as in every

routine inquiries about prices,

delivery and stock control can be accurately handled by the technology, allowing the

manager to concentrate on areas "that require judg-

ment, like future business strategy, market place com-

petitiveness, new products". He feels that just as it is

wrong for a housewife to slave over a washboard now we have the washing machine, it is also wrong for

He agrees that once "com-patibility" and "resilience"

problems are eased, and standards are established along the lines being sought

by the recently formed Department of Industry Focus Committee** then managers will find less

rritation when working with

In a straw poll of man-agers, all say that the major change in their job as a

result of IT and desk top power, is the instant avail-ability of information which allows them to speed up their

decision making — that is if they have properly thought through the question "what information do I really need, and in what form?"

information. In principle this means

that an executive could work

from home. But there is a reluctance to relinquish the office desk in favour of computing. One businessman

said that working at home was too unsocial compared

According to a recent survey there are 1,700,000 separate "offices" in Britain, compared to the previously published figure from the

Census of Employment 1976

The survey undertaken by

which made it only one

Industrial Market Research

Ltd (IMR), a uniquely de-

tailed picture of British office equipment market,

covering products, service areas and Information Tech-

nology. The 1976 Census was

coverage of smaller office establishments — a comparison of the IMR results with those from the Census esti-

The Institute of Directors, which prides itself on serving the interests of the smaller

businesses, admits that the

works leave it alone".

"The market is mainly

ignorant and unimaginative rather than non-exis-tent . . . it is hard nut to crack

Lynda King Taylor

with the office.

executive's life.

IT products.

ed from previous page individual equipment, its costs and its characteristics. This report, funded partly by the Department of Industry and partly by subscribing companies — which includes British Telecom, ICL and Rediffusion — summarizes the experience of some 17 organizations from an analy-sis of their business problems, the opportunities for word processing and the managements' objectives for nanagements' objectives for a manager to slave over fifice technology.

The report indicates that the "humdrum" out of the

office technology. there is tremendous scope for IT as a means of improving efficiency in all areas of secretarial and support functions, such as accounts and finance, personnei, payroil, sales, mar-keting and distribution, production stores and procure-ment. But the major problem for many companies is still "where do we begin and

This year Xionics, a small British computer company, installs an information systhe Cabinet office, Whitehall. It forms one of the "office of the future" projects, demonstrating advanced office systems, planned by the Department

of Industry.

According to Mr Kenneth
Baker, the Minister, these projects are "particularly good examples of intelligent public purchasing allowing base for large companies, which covers economic and public purchasing, allowing the public sector to show that which covers economic and demographic data on 130 countries since 1960. This means that users — at present some 3,000 world corporations — have access from 300 cities, via a local telephone call, to a system of data, including the United Nations mouthly Bulletin of Statistics, OECD Economic Surveys, and IMF financial information. information technology can create greater efficiency and improved service at lower costs, while at the same time manufacturers providing with real working office environments in which to test and evaluate the oper-ational efficiency of their advanced equipment".

The IT equipment in the office

Copiers/duplicators Word processors Pax/intercoms/message Teletext/videotext Data processing terminals /personal computer Telex/teleprinters/facsimile Micrographics Electric/electronic type-PABX's/data links Central computer system

Accounting/invoicing ma-

The advanced equipment which Xionics is developing is known as a local area network (LAN). It is a system which can link together a myriad of computers, word processors and other electhose from the Census estimate for the 10 to 99 employee group of 350,000 establishments (against 250,000 from the census) and for the one to 9 employee group, 1,200,000 office establishments compared with 750,000 in the census.

Through the IMR survey we now know that one in three of the working population work in offices (7,500,000 out of 23,500,000) and that 95 per cent of work places have less than 50 employees and these establishments account for nearly half the total working population.

The Institute of Directors, tronic equipment to form an inter-office or inter-factory network. The company has, in effect, developed a device

which allows all parts of the network to talk with one unother. According to the managing director, Mr Michael Bevan, managements in the past have "over-exercised their freedom of choice". Their selection of office equipment ranges from Victidata, Prestel, Herald telephone systems, to mainframe and desknoo computers and word top computers and word

The products usually come from different manufac-turers and can often be incompatible. The customer can get frustrated when one machine breaks down and work cannot be handled by businesses, admits that the subject of IT has a reputation for being technical and forbidding which tends to discourage the businessman from taking full advantage of IT. In its booklet The Director's Guide to Computing (published by the Institute this month, price f1.95) it

The network overcomes this incompatibility. It can convey messages, transfer electronic mail and retrieve

electronic mail and retrieve data from other computer centres or data banks. It should enable the Cabinet Office staff to get a report on the visual display unit within seconds.

Mr Bevan hopes his network will prevent the recidivism that seems to occur within some offices using IT. One of the major complaints concerns the lack of the resiliance and reliability of IT products. If a part does break down it is important that the system is still able to carry on. When this does not happen users return to the One of the major complaints concerns the lack of the resiliance and reliability of IT products. If a part does break down it is important that the system is still able to carry on. When this does not happen users return to the old methods of working, resulting in an increasing antipathy towards the new

good information technology, managers in such areas as marketing, research and development, design, finance and sales, are able to gain immediate access research and development,
design, finance and sales, are
able to gain immediate access
to relevant accurate information on sales, production
and marketing trends.

Mr Tom Elliott, managing

** The Focus committee was
established in 1981 by the
Department of Industry on IT
standards, to coordinate all
British national and international standardization

mation on sales, production and marketing trends.

Mr Tom Elliott, managing director of Unilever's UIMC, sees IT as being particularly important in making an executive's time more effective. For instance, simple and

Fine words do not a telephone system make

"I believe that the future ditional cry "that is all we prosperity of Britain depends can afford; you'll have to do on our being bang up-to-date the best you can"? And will in the latest technology, and this spending have the depreferably one step ahead of other countries". That is Britain genuinely competitive. what Mrs Thatcher said, in a specially-recorded video tape interview, at the launch of Fine words, but they are in

Fine words, but they are in any objective person's terms impracticably optimistic. Britain's present telephone system is a disgrace, by the standards of "other countries", even its computerized exchange, System X, that should shortly be coming into service, draws jibes from foreign engineers that the foreign engineers that the reason for the "X" is that British Telecom has still to decide what form it will take. Add to this an Administration that does not practice "interventionism" to help its industries join the cut-throat world of high technology, and a populace that seems indifferent to science and engineering, and what lies behind the fine words?

It is a big question, and one way to break it down into manageable proportions is to look at what government departments are spending on information technology. That information technology. That leads to some more specific questions; for example do the most advanced firms get the contracts, or are they going to companies with traditional or "old boy" ties with government? Are buying decisions made by people with knowledge and experience of the information technology industry, or are they bureaucratic in nature? Is there enough cash being Is there enough cash being distributed between a wide allocated to do the job spectrum of companies, properly, or is it the tra-government laboratories and

consultants. It also includes some spending that comes under the Ministry of De-

But although this list of money sounds impressive, it needs careful examination to other country, the govern-ment is the biggest buyer of information technology. In practice, this means it buys the most computers, teleput it into perspective. One quarter of the £80m allocated to information technology quarter of the 250m and taken to information technology will in fact go to promoting the subject over the next four years, and fim of that is being spent on promoting ITS2. Less than £2m of the remainder has yet to be committed to new projects and those that do have price tags connected (setting up microsystems centres, an phones, exchanges, data bases, internal communi-cation systems and so on. It cation systems and so on. It has to, processing as it does more "information" than any other identifiable "body". Precisely how much it spends in total is impossible to calculate, split up as it is between a dozen or so government departments, and many more spending agencies. So to sharpen the questions once more in the context of the Prime Minister's remarks about 1782, we microsystems centres, an exports advisory committee, and bolstering the micro computers for schools programmes receive individuall The microsystems centres

whose aims will be to offer

whose aims win be to their training and export skills in using microcomputers for "businessmen and others" — will get £600,000 from the Government to match the similar amount provided by the National Computing Central which certains and many contracts and contract ter's remarks about IT82, we shall apply them to current and future spending plans. The Department of Industry The Dol is the biggest spending and sponsoring agency in information techtre which set up and runs them. The export committee, whose role will be to improve the sales overseas of British IT products, will cost \$250,000 for the one year it is the product of th nology. It acts as host to the Information Technology Division, and has the only minister responsible for II. c259,000 for the one year it is due to exist. And the microfor-schools project, started last June, has a notional upper limit of £4m, though the DoI says it has not yet worked out how much it spent on the 2,000 or so applications it has processed. The DoI's biggest expenditure to date has been the Microperocessor Applications Project and its sister the Microelectronics Industry The Dol plans to spend £80m over the next four years, "to help research, develop and manufacture new products and processes in the IT field and to raise awareness of IT in all sectors of the community. This money is, in addition to several hundred millions more, spread over up to eight years, and distributed between a wide Microelectronics Industry Support Programme, MAP,

which is due to end this year, made £55m available to lielp people become aware of microelectronics to help pay for consultants to design systems for them and to pay in part for the hardware and in part for the hardware and software they decided on MAP's administrators have spent more than £45m so far MISP's main role has been to support Immos.

Its next biggest outlay of cash seems likely to be the information technology centres it is just starting to set

information technology cen-tres it is just starting to set up. These will train unem-ployed young people in microcomputer technology and give them the experience of computing that the Government thinks is vital to Government timins is vital to getting a job these days. Each centre cost £3m and just before Christmas, Kenneth Baker announced that the DoI will set up 100 of them.

The Dol's other key projects are: Office Automation projects (11 pilot projects have been proposed at a cost of £500,000 each); a scheme to make industry aware of the advantages of computer aided design and manufacture. Ffor over three wareand design and manuac-ture; (f.6m over three years) another parallel project to encourage robotics in indus-try (under which interested manufacturers will get grants to help them assess and install automatic manufacturing machines); and a scheme to encourage industry to build up skills in optical fibre communications cables and the terminals needed to convert these into complete convert these into complete workshop for four years telephone or data transmission networks. This scheme will cost £25m over five years and is intended to focus on possel technology. focus on novel technology.

Until it was merge and the service Department from the formation Technology is limited to its role of the matter o

of it fas into the category of and operating a workshop in which novel microelectronics hardware, and the software to go with it are developed by experts. working alongside the inexperienced people who will use the systems.

The CCTA's latest task announced by the then Minister of State for the CSD, Barney Hayboe, last November) is to investigate what government will need in the way of "administrative telecommunications" over the next 10 years. This piece of jargon means all the cables, exchanges, word processors and computer data bases that are needed to build a modern electronic office network. The fact that the CCTA is only doing this study now, although it has been running its micro workshop for four years might seem like designing the stable around the horse but ar least it gives some hope that the problems of the attendance to the communications.

Of it fas into the category of Information Technology. What dess are the communications bystems that it uses to handle classified information. These operate to international (Nato) standards, moving coded information from one computer to another. They bear little resemblance to the kinds of equipment that being will be increasingly using in their homes and warded information from one computer to another. They bear little resemblance to the kinds of equipment that being will be increasingly using in their homes and warded information. They bear little resemblance to the kinds of equipment that being will be increasingly using in their homes and warded information. They bear little resemblance to the kinds of equipment that being will be increasingly using in their homes and warded information. They bear little resemblance to the kinds of equipment that being will be increasingly using in their homes and warded information. They bear little resemblance to the kinds of equipment that being computer to another. They bear little resemblance to the possible will be increasingly using in their homes and warded information. They bear little resemblance to the possible w

Technology Editor.

How Rank Xerox brings your office into the future.

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supplying the complex infra-

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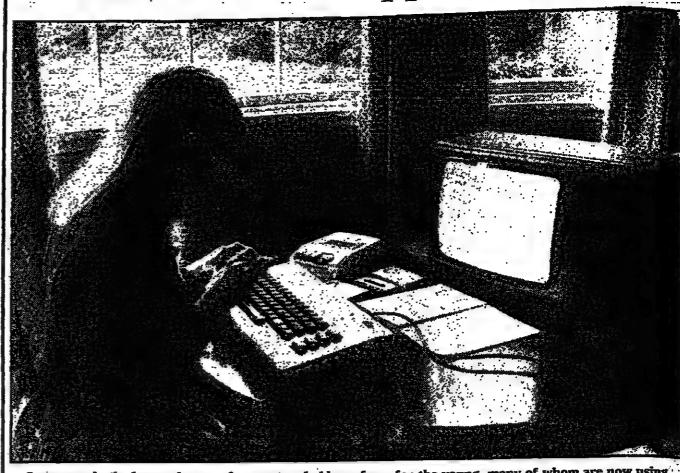
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Push-button shopping arrives



Computers in the home: the use of computers holds no fears for the young, many of whom are now using computers daily at school. The machine being used here by an 11 year old is the newly-launched VIC 20 colour computer. More than 18,000 have been sold since the launch in October.

Generally the home with a suitably adapted television set has a choice of two videotex information services. There is teletext, broadcast by the BBC and ITV, and there is viewdata provided by British Telecom through telephone links.

One of the basic appeals of computer-based videotex information is that it can be updated rapidly and cheaply by the sender. Print-out attachments can be fitted to receivers.

There are believed to be There are believed to be 250,000 to 300,000 sets either purpose-built or linked to an adaptor to receive teletext. The BBC calls its product Ceefax, that from ITV is Oracle.

When British Telecom's own viewdata operation, Prestel, opened a little more than two years ago it ex-pected to compete in the mass market with Ceefax and Oracle. But so far it has attracted only about 15,000 clients, and has shut down some of the computers which were ready to meet the information explosion.

Since both systems provide a similar service, information in printed and computergraphic form thrown on the television screen at the touch of a few buttons on a key-and the discrepancy in the discrepancy in response looks strange. But there are a variety of reasons.

Long cord is required

The principal one is that teletext comes free, like other television programmes, although the BBC says cautiously "not at the moment" when asked if an extra licence is required for Ceefax. ITV takes advertising to pay for Oracle. The only cost to viewers is that of buying a new set or an adaptor to

receive broadcasts.

Prices vary, but a trade spokesman suggested a 22-inch full remote control television set, normally selling at about £350, might rise to £450 to £475 for Ceefax and Oracle. With Prestel as well the price could be £575. well the price could be £575-£600. Adaptors for an exist-ing set of the same kind, he said, would range from £200 to £250 for teletext, and from £190 to £230 for Prestel. At present a separate adaptor is needed for each of the two

services.
Prestel, in addition, incurs a fee which shows up on the telephone bill. This may be telephone bill. This may be no more than the cost of a local call while the set is in use, but there can be additional charges for access to some information. The caller is warned of these before he keys them in.

There are other physical and psychological influences at work. Few people place their television set where it is easily linked to the telephone, so in many cases a

phone, so in many cases a

long cord is required.

Women and children tend to control the television switches in the average home. Fathers are unwilling to give their children use of what could be an expensive toy (each Prestel user has his own pass-code). But it would own pass-code). But it would be a bold husband who insisted on calling up the racing results when his wife was watching Coronation.

It is probably for these reasons that some 80 per cent of Prestel sets are installed in offices. Very likely many home sets as well are owned by businessmen who cannot sleep without knowing whether Wall Street was panicking at the close of

business.

However, the potential of Prestel far exceeds the capacity of television systems. Currently it can call up 200,000 pages of information, although many of them are highly specialized; they include case histories for lawyers and a few sentences about various trade unions, including my own.

If there were more sets

If there were more sets installed, the number of organizations supplying data to Prestel, called information providers, would rapidly increase from the 700 listed at the end of 1981. Organizations interested in contacting a broader audience would also be attracted to the form accessible to a general also be attracted to the Users can put information

into the system as well as take it out. The ordinary numeric keyboard can convey a limited range of messages to another subscriber; with a full alphabetic keyboard detailed communi-cations can be sent. In two or three years British Telecom

expects to have Prestel 2 transmitting pictures of full colour photograph quality.

Already armchair shopping for a limited range of goods is a possibility for anyone equipped with a Prestel set and a credit card. Debenham's and W. H. Smith were among the first to develop among the first to develop this outlet. Goods are ordered by filling in a page form through the key-pad and giving the credit card number. They are delivered to the registered address of the customer. Home shopping could be

the locomotive to get Prestel really moving in March, when the Gateway service is introduced in London, later to spread nationally. This will allow a receiver, at present limited to the system's own computer, to contact external computers anywhere in the country through the Packet Switched Service, British Telecom's public data net-

So, for example, it will be possible for customers to dial direct to a mail order firm's computer, or make airline and holiday reservations, having first checked that agencies are already heavy users of Prestel). Gateway could also introduce banking transactions from the home.

There could be equally farreaching effects in actual information retrieval. Technically, a scholar might study

manuscripts and rare books television companies, has in remote libraries without already done this in Scotland,

form accessible to a general service, even if they wished

to do so. However, even with the existing service it is possible for a body providing pages to keep them confidential by placing them in Closed User Groups. They are then only available to other subscribers nominated by the provider of the information.

Hired for a few pounds more

BBC's Ceefax is confined to information, whether news or features. Broadly speak-ing, BBC 1 carries the spot news, and BBC 2 the magazine material, including con-sumer advice, and a section of jokes and puzzles. It is possible to combine Ceefax with an ordinary television programme, so that a newsflash will appear in a small box on the screen when important events occur.

Rapid acceptance of the system owes something to the freedom the corporation has to advertise its own service—specimen pages can be seen early in the day on BBC1 and at various times on BBC 2. As with ITV's Oracle, purpose-built sets can be hired for a few pounds a month more than a conventional television set. Both share the handicap

that transmissions are only available from the time broadcasting starts for the young, even by the standards day down to its close. Also of an age of white-hot the number of pages is technological revolution, and limited, perhaps 400 to 500 and doubt such desaybacks will Derh between the two BBC chan- be resolved before the month

nels on a typical day.

The BBC plans to ease this limitation by regionalizing news, and items about weather, sport and entertain-ment. Oracle, which is owned jointly by all the commercial

as well as information.

ITV time worth about 22m is being used to publicize the.
Oracle service, and interest potential advertisers. There are cheerful forecasts that by 1985 the audience for teletext will run into millions, rather than hundreds of thousands.

Advertisements can appear as separate items or as fractions of editorial pages.

Perhaps the commonest complaint from users of both viewdata and teletext is the difficulty in using the index viewdata and teletext is the difficulty in using the index systems. It may mean first calling up one or more pages of general index, progressing to a sectional index of several pages, and finally homing in on the particular page carrying the required facts.

Some of this frustration wears off as the user be-

wears off as the user be-comes familiar with the numbers of pages he calls up regularly. Ceefax and Oracle customers make heavy use of the sections which tell them about the television pro-grammes they could be watching.

Another problem is that any system takes time to deliver a page. With Prestel it is produced letter by letter as from a high-speed teleprin-ter. On Ceefax and Oracle the delay occurs because every page is broadcast in non-stop sequence, and only when the page requested comes round can it be flashed on the individual screen.

tain of information turns into a volcano engulfing us all -

Britain has been a pioner in the applications of videotex, and industry and government have been active in promoting overseas sales.

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More modest problems are independent businessman, who often feel they ought to

To give the beginner a chance to judge for himself the National Computing Centre has established a microsystems centre in London offering advice and training. The Department of Industry is backing a scheme to open others throughout the country. Retailers have already

Patrick O'Leary

Big plastic spender still needs his wallet

Bankers today speak not of a cashless, chequeless world, but of the less-cash, lesscheque society. With hands on hearts, they say they want to shorten the queues at high street branches, which would benefit them as well as

It is true that what is known as electronic funds transfer is growing, with money passing from one account to another without the use of paper to achieve it.
Most people who use cheques
have some experience of this;
for example through credit transfer, principally in the payment of salaries, or through direct debit of standing orders for meeting bills.

spender is the plastic card which operates cash disautomated teller machines, or on a small scale so far, point-of-sale shop-ping. Credit cards can bunch several payments into one cheque, as well as reducing cash-carrying, but generate much paper work along the

Standing orders have re-ceived a set-back, because ceived a set-back, because some local authorities, as inflation means they need constant updating, almost as troublesome as old bodies receiving large numbers of monthly or quarterly debiting is still recovering from one or two well-publicized disasters in its early computer has spoken to from one or two wear cized disasters in its early days. People are not yet fully reassured by fervent protestations that they will be credit transfer is another notified of changes in the notified of changes in the and indemnified gress. As a nation Britain is underbanked, perhaps only

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Money on a rainy day.

But pressure to switch to 60 per cent of its earners has system is growing from have accounts, against 90 per cent in many EEC countries. This is largely because most in the countries of the countries of the countries. this system is growing from the banks' corporate customers, insurance companies and building societies, and some local authorities, as

manual workers are paid in cash. Some are being wooed to change, by employers with cash bonuses, and by banks with simpler and cheaper handling of small accounts. But the first-time account

holder is the person most likely to grow disillusioned if it is not just as easy to take his money out as put it in, and he probably hates queuing. So the simple cash dispensers are giving way to through-the-wall banking with automated teller ma-

banks, Lloyds, National Wes-teninster, Midland, and Bar-clay's are installing such tage. He might also take machines at various rates, evasive action before slipping clay's are installing such machines at various rates, and Trustee Savings Bank has a similar programme. They can be placed inside branches to relieve pressure on counter staff as well as through-the-wall. In some cases customers can offer their cards at counter compoters, tapping in the request for cash under the eye of a human teller. The advantage to the bank is that no cheque

has to be processed. Staff also use desk-top terminals to check accounts, work out currency conversions, and for similar tasks. Some have machines which print out receipts.

operations which require a multiplicity of heavily-staffed branches. Already cash dis-pensers can be found in stores and on the premises of

self-service at home, the customer sending instructions through viewdata. One American banker has suggested it would be economic to lease attachments for television sets at low rentals, eliminating many transtelevision sets at low rentals, eliminating many transactions which entail a visit to a branch. It would be possible for viewers to order cash to be delivered by registered mail, but this sounds like an idea invented by mail robbers.

Prospects are exciting, but in reality electronic payments in Britain are believed to account for less than 20 per cent of all non-cash transfers. The percentage is rising, although as total transactions are also increasing, the cheque mountain butter-matched stock decline.

But it is overshadowed by some bargains are struck cash deals, estimated to automatically at ruling outnumber non-cash by eight prices. This can remove large or nine to one. It must be amounts of small orders remembered that the value of from manual processing by non-cash payments is generally high; but even if the black economy disappears, it will be some time before wallets go out of fashion.

Since 1968 the London and day about 70 to 80 per cent

Since 1968 the London and day, about 70 to 80 per cent Scottish clearing banks have of the business on the sponsored the Inter-Bank exchange. Otherwise about Research Organization. A 500,000 pieces of paper would large part of its work is to have to be shuffled round the study the application of various offices during a information technology to fortnightly account. financial transactions and monitor its results. Having faced by the shopkeeper and introduced the machine-read-independent by sinessman able cheque, banks are pressing for standardization of credit slips.

Electronic funds transfer on a massive scale is carried out by Bankers' Automatic Clearing Services, another product of the main banks. instead of vouchers, this receives tapes at its City office or Edgware computer centre from firms and other organizations. These contain instructions for payment of salaries, trade bills, and

similar transactions. At the BACS centre debits and credits are micro-filmed for record purposes, then they are stored in the

computer, and distributed in bulk on fresh tapes to the appropriate banks. Limits can be set on individual items, or on totals, so that gross errors are challenged before payment.

INFORMATION TECHNOLOGY

In addition to processing tapes the centre expects in about a year's time to be able to take instructions by tele-communications. In such an advanced organization it is a relief to find staff saying that the quickest way to send 15 sacks of tapes daily from the City to Edgware is by van.

Before long banks will have a new instrument for passing money, under which the Bank of England and others will be connected directly to a central computer. This would extend the same day clearance of the same-day clearance of cheques, from London to other parts of Britain. In time, it could mean less pressure for the world's banks to retain an office, however, small, in the Square Mile:

Not everyone welcomes rapid transfer of money between accounts. Those institutions most importunate in urging mean's in urging people to pay small remittances by direct debit, prefer to pay their own larger bills by old-fashioned means.

This is partly a product of high interest rates. A cheque in the post can represent money in the bank or in the market, earning two or three days' interest. On a large scale this outweighs the cost of manual handling of an

with automated teller machines.

While technology can save banks money, using less banks money, using less staff, in smaller premises, chequebooks to be sent to the holder's home, as well as services, it seems likely to bring problems. When every man can sit at home and deposits. During most of the working day a customer can check his current balance.

All four main clearing banks, Lloyds, National Wesaccidentally into the red and incurring charges. Inevi-tably, there will be increased demands for all banks to pay interest on current balances.

A stream of information

Switching funds and investments is the business of the Stock Exchange, where the offices of dealers, brok-ers and jobbers receive a daylong stream of information on video screens print out receipts.

But bankers would really Extel, and other agencies, like to move away from but the Stock Exchange has also developed its own sys-tem. This incorporates information from agencies with that from the exchange's own sources, the price reporters

stores and on the premises of large employers of staff.

Point-of-sale schemes, in which the client presents his card at a suitably equipped store or petrol station, have been tried out in several countries. Through a direct link with the bank his account is debited and the shopkeeper credited immediately, provided the funds are available. Britain's big four are cooperating on a joint scheme, and hope that within a couple of years it will be possible to make payments without separate terminals being needed for each kind of card.

Self-service

at home?

The founthe exchange's own sources, the price reporters who tour the floor of the market regularly, and staff who compress lengthy company reports and other business news into a few paragraphs.

The system, known as Topic, is linked to the exchange's central database called Epic, and can be switched to Prestel or, at critical moments in sporting history, to ordinary television channels. Because it is in colour it can reproduce something of the atmosphere of the trading floor, where price rises are marked in blue and falls in red. A practised eye can sweep over a board, or in this case screen, and tell whether the market in any particular sector is going up, down, or dithering.

Its operators say screen fill the court of the trading floor, where price rises are marked in blue and falls in red. A practised eye can sweep over a board, or in this case screen, and tell whether the market in any particular sector is going up, down, or dithering.

Its operators say screen fill time is much less than on some other systems, which means when you switch to the page of information of your choice it is completed faster. Another refinement is that half a page can be expanded to twice the normal character size.

Topic operates outside London, although distance adds to the cost of leased British Telecom lines. Some

transactions are also increas-ing, the cheque mountain does not diminish.

In the United States com-puter-matched stock dealing has been introduced, and

buy computers without knowing quite why.

taken to electronic cash registers. Computer-based models are said to be particularly useful in betting shops.

DWDRY MARIS INFORMATION INDOENOLOGY YBAR ALI GRANAIDA

To consolidate the success we have already achieved in supplying TV sets, Aerial systems, Video and Viewdata equipment to industry and commerce, we have formed a new Business Systems Division.

Granada's Business Systems Division will provide a comprehensive service to make sure you get the most from the system that is best for you. We will show you how you can increase efficiency, save time and reduce costs.

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1982 is Information Technology Year. It's a special year too, for ICL. A year of important new marketing strategies.

New Networked Product Strategy ICL is offering its new Networked Product Line which will meet the growing needs of distributed processing and office automation in world markets.

New approach to small system selling New ICL Computer Point demonstration centres will offer the small business community easier access to ICL's powerful, small computer systems with a wide range of application solutions, to meet businesses' real needs.

New attitudes to third parties ICL is introducing new commercial. initiatives, under the banner Trader Point, to encourage distributors, software and systems houses to sell ICL small computers, like the DRS 20, which starts at a simple workstation, and can grow into a fully networked system.

New collaborations

New collaborations are taking ICL into engineering productivity with PERQ, personal computing with Rair, very powerful mainframes with Fujitsu, electronic private telephone exchanges with Mitel, and 'One per desk' workstations with Sinclair.

New force in information technology With its new products and strategies, ICL enters 1982 positioned to be a world leader in information technology.

The new ICL. Leaders in information technology.

Automatically your valet

Three or four years ago I to a machine than to another quickly than through leaflets leading electronic gadget and brochures. leading electronics firm illustraining how computerized tempered, automation could transform Already the deaf and dumb life at home. All the gadgets can communicate with key-based me, were boards and video terminals,

Perhaps we are just not ready for a world in which, by depressing a few buttons, you can draw the curtains and check the outdoor tenters before labring out perature before leaping out of bed, run the bath water while scanning the electronic news, burn the toast and the coffee while soaking, and open the garage doors and start the car while taking leave of your wife, who can activate the self-propelled watchvacuum cleaner while watch-

ing breakfast TV. we are all vaguely aware that micro-electronics have invaded our lives, at the office, when we travel, pay a bill, or go shopping. The airline check-in girl uses a computer to allocate seats. Taxi meters flicker away in one line of computer numerals instead of an array of dials, and pub tills have gone

But in the home new logy seems more acceptible if it appears in a familiar guise/improved televison and electric organs, mere sensitive thermostats to sive fuel, washing machines, cookers, dishwashers, and toasters which could use sensors to switch off when the job is done rather than at present time. Even the electronic sewing machine is not obtrusively different from its predecessors. In the frightening jargon of the industry, these are "user friendly".

However, we are reluctant to put it all together, so that one computer console, programmed to a particular home's requirements, can control a battery of applianc-es. At present, the pressure for such simplification comes principally from a section of society least able to pay for it - those who are physically or mentally handicapped.

To a man or woman whose handicaps mean the limit of achievement is to throw a simple switch on and off or press a sensitive keyboard, information technology of-fers the potential for increased independence and a base, accesssible through much fuller and more profitive which would provide up-to-inpaired often respond more date information much more

Two or three weeks ago I movement may be confined the continued the confined to one foot. There is a phoned the company and to one foot. There is a information retrieval system proved unequal to the task of Micro-electronic computer than the company and to one foot. There is a information retrieval system printed texts into braille. finding anyone who could systems may improve the even remember its existence, operation of artificial limbs.

Perhanse of the The teletext services of the BBC and ITV offer a service whereby some ordinary pro-grammes can be seen with sub-titles. Ultrasound equip-ment can help the blind to

move about. More advanced aids are technically feasible: domestic appliances, from light switchturn off and on at voice commands, a video entry-phone for someone in a wheelchair to check who is at the door. But most gadgets, even those which are in production, are too costly for the average family.

One man who is himself handicapped and manufac-tures a typewriter designed for fellow-sufferers, says: "There's not a big enough market at the moment for anyone to make money out of it." Moreover, the public image of technology does not lend itself to charitable giving; a fund for guide-dogs has more emotional appeal than one for electronically

equipped wheelchairs. However, the number of handicapped rises as we main each other with cars and coshes, and as we live longer and survive more infant diseases. There is also the prospect of enlarging the possible market to other European countries and to

ther continents.
In the meantime the quiadapting existing commercial products. The spread of home computers could be significant here, even if the users required special key-boards to go with standard machines. Industry has small robots which might have applications for the disabled.

Not the least of current problems is keeping those who need the knowledge in touch with what is available in mechanical and financial aid. One of the Government initiatives this year is to consider setting up a data-

There is also some agoniz ing about what is best for people who are at present housebound. Developments in communications mean they can work as secretaries or computer programmers for example, from their own homes. But some would argue it is better to concentrate on devices to increase their mobility, and enable them to go out to work as others do.

Introduction of optical fibre telephone cables should expand the services piped into the home. The Department of Industry is sponsoring field tests later this year in a thousand homes in Milton Keynes and parts of London, of remote-control reading of electricity, gas and water meters. In this case the information will pass through electricity mains, and it will also be possible to monitor equip-ment to detect leaks, and interference with meters.

Burglar alarms have be come highly automated, and some transmit pre-arranged messages to local police stations. It is possible for similar alarms to be activated over the telephone by miniature radios.

An elderly person alone in a house who suffered an accident rendering it impossible to reach the telephone could use a wristwatch-sized radio to call a preset number and alert a relative at work. But radio transmitters are subject to problems relating to allocation of wavelengths, official scrutiny.

divided for IT purposes.

heralded

computer

Wales was first off the mark, with last week's Swansea Bay Micro Show.

Tomorrow sees the launch of the North West's programme,

heralded by a press confer-ence in Manchester and a

preview of the region's

Other regional launches

(Wood Green, Norwich, Hemel Hempstead); East Midlands, Jan 21 (Notting-

ham, Beeston); North East, Jan 28 (Leeds, Newcastle, Sheffield); Northern Ireland,

Jan 25 (Belfast); South West,

Newmarket in May. At national level, there is

the Col. Consisting of up to

Jan 29 (Bristol).

competition for

The electronic clock and scoreboard have long been features of sporting events.
But the use of automatic line judging at Wimbledon last year opens up intriguing possibilities. Few soccer hooligans would enjoy abusing a robot referee.

Visual arts have not embraced the microprocessor to any marked extent. As for other organizations, it has proved useful in routine applications, booking seats and word-processing appeal letters. Lighting of stage sets has been partly-automated.

Instant video-taping means that a performance can be stored for study. The Institute of Contemporary Arts has started a library of tapes to be an impressive modular for viewing in its premises in exhibition stand, designed by

Patrick O'Leary

six hexagonal steel-framed bubbles, each occupying about 30 sq m, the stand will

The IT 82 calendar

The organisers of Infor- be seen at eight national mation Technology Year exhibitions, starting with the (1782 for short) are confident Which Computer? Show at (FT82 for short) are confident

(IT82 for short) are confident that its circular black and white logo — the i has a bright blue dot — will soon become at least as familiar as was 1981's Year of the Disabled triangle.

They base their confidence on the cumulative impact of the many hundreds of national and regional events that have been devised to the character of the venue. At the Business Efficiency At the Business Efficiency Exhibition, for instance, the office will provide the autothat have been devised to promote the object of the

promote the object of the year — "a wider appreciation of the opportunities and benefits provided by information technology to all sectors of the community." Some will fly under IT's own colours. Many more are regular events whose sponsors have spotted that IT could provide a topical and interesting theme with which to dress up their hardy annuals. or as interpreted by the participants. Many of the exhibitions directed at the general public rather than the trade will be visited by one of IT's mobile electronic office units - six 47ft long The Doncaster Chamber of trailers displaying the latest Commerce, for instance, has in word processors, micro-computers and electronic taken IT up for this year's Impel, the chamber's annual trade and industry fair. So

has the Coventry Junior Chamber of Commerce, which is linking its 50th anniversary conference in September with a competition for an IT project designed to appeal to youth facsimile transmission. Manned by the Govern-ment's National Computing Centre, these trailers can be booked free of charge from the NCC, Bainbridge House, Granby Row, Manchester Mi 2PW (tel 061 228 0609/0798). The first four will be laun-ched by the Prime Minister and the unemployed.

Specific launching events have been arranged for each of the nine regions into at tomorrow's IT ceremony in Manchester.

In addition to these events and exhibitions, a wide variety of professional bodies have undertaken IT-related projects. The Institute of Management Consultants have adopted IT as the theme for their annual conference; so have the Stock Exchange, the Institute of Bankers, the Management Consultants Association, the Institute of Consultants are scheduled as follows: Scotland, Jan 18 (Edin-burgh); West Midlands, Jan 18 (Birmingham); London and South East, Jan 20 Chartered Accountants and the Institute of Electrical

Engineers.
The The British Medical Association is to run a monthly competition in its journal, and the Jim Conway Foundation has arranged a series of IT seminars for trades unionists. The Booksellers Association plans a number of bookshop displays and to publish an IT bibli-

ography.

Of wider interest, perhaps, will be the six-week exhibitions to be mounted by the In the London and South East region special IT weeks will be held in some 20 towns and boroughs, including Brighton, Canterbury, Craw-ley, Greenwich, Guildford, Hackney, Haringey, Haver-ing and Maidstone. There will even be an IT race day at Design Council in London, Swansea, Glasgow and New-castle. So will an IT exhibition at the Science Museum, from the end of

April. Finally, two postage stamps (those essential seals of Establishment approval) will be issued by the Post Office in September.

Richard Sachs

January Launch of IT trailers by the Prime Winister, NCC, Manchester (15). W Which Computer? Show, NEC, Birmingham (19-22). FAST (Forecasting and Assessment of Science and Technology) seminar, Selsdon Park,

Croydon (25-29). Micropex. Glasgow City Chambers (27-29). BP Oil Computer Centre opens, Hemel Hempstead (28). February

Business Equipment and Services Exhibition, Bristol (3-4) and Bournemouth (17-18). Info '82, Barbican (9-12). National Computer Users Forum, Institute of Electrical Engineers (9). Computers and Technology in Education, Cardiff (8-9) and Swansea (10-11). Microsystems Exhibition, West Centre Hotel, London

March

International **Electrotechnical Exhibition** (Electrex) NEC, Birmingham (1-5), Microshow, New Century Hall, Manchester (3-5). Business World Exhibition, Bristol (7-10). Daily Mail Ideal Home Exhibition, Earls Court (9-Apr 3). Daily Telegraph Business to Business Exhibition, NEC, Birmingham (9-13), Oxfordshire Microfair Oxford (11-12). Home Video Show, Cunard International Hotel, London (11-15).

Business Equipment and Services Exhibition, Brighton (17-18). Royal Statistical Society Conference, York (22-26). Institute of Directors Conference, Royal Albert Hall, London (23). Electro-Optics/Laser International Exhibition (23-25). Thames Valley Business Show, Slough (23-26). Audio-Visual Exhibition, Wembley (29-Apl 1). Laboratory Equipment Exhibition, Edinburgh (30-31). Computer-aided Design Conference and Exhibition, Brighton (30-Apr 1). Lasers and Systems for Controls and Measures Conference and Exhibition, Manchester (30-

April Chelmer Institute of

Information Processing symposium and exhibition Cheimsford (13-16). Local Area Network Distribution Office Systems exhibition and conference, Tara Hotel, NUT Conference. Scarborough (9-15). All Electrical Show, Barbican (19-21). NUPE Conference, Scarborough (21-27). Institute of Management Consultants Conference, Inperial College (21). Communications '82, NEC, Birmingham (20-23), Tickhill and District Lions Club Marathon, Yorks (25) Booksellers Association Conference, Scarborough

(29-May 3). Science Museum 17 Exhibition opens (till

ICL Computer Users Conference, Bournemouth (5). Dudley College, Institute of Data Processing Management exhibition (10-Management exhibition, 15). Micro-City Exhibition, Bristol (10-13). 1982 Microshow, Wembley (11-13). Welsh Industries Fair, Versii industries Fair, Cardiff (12-15). IT Race Day, Newmarket (14). Design Council Exhibition, Haymarket, London (16-June 26). Shropshire and West Midlands Agricultural Show, Shrewsbury (19-20). Devon County Show, Exeter (20-22). International Word Processing Exhibition, Wembley (25-28).

.Iuse

IT Exhibition, Plymouth Polytechnic (2-4), Impel '82, Doncaster (5-12), Times and Sunday Times Business to Business Exhibition, Earls Court (6-9). EETPU Conference, Scarborough (6-12). Computers in Medicine Conference, Institute of Electrical Engineers and British Medical Association (7-8). Lopdon Multi Media Market, Tower Hotel (13-17).

Business Efficiency Exhibition Earls Court (14-18). Electronic Publishing Conference, (14-19). Office Automation Show, Barbican (15-17). Business to Business Exhibition, Cardiff (23-25).

July

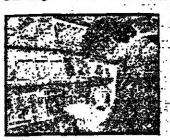
Careers Research Advisory Council Conference, Cambridge (6-9). Design Council Exhibition, Swansea (20-Aug 21). Royal National Eisteddfod, Swansea (31-Aug 7). Tyneside Summer Exhibition, Newcastle (27-31)

August

International Scout Camp, Lakeland Forum. Coventry Evening Telegraph Town and Country Exhibition.

September

Blackpool Illuminations, (1-Oct 31). International Air Show, Farnborough (5-12). ICCC '82, Barbican (7-10). Post Office issues IT stamps, (8). Design Council (8). Design Council
Exhibition, Glasgow, (15-Oct
30). Media and News in
Action, Earls Court, (20-Oct
4). Coventry Junior Chamber of Commerce conference and exhibition, (16-18). E 5th International Personal Computer World Show, Barbican (9-12). Design Engineering Show, NEC. Birmingham (28-Oct 1).



October

Wiewdata '82, Wembley (1214). British Computer Society
Jubilee Conference, Queen
Elizabeth Hali, London (14). Computers on the Farm, National Agricultural Centre, Stoneleigh (20-21). International Motor Show, NEC, Birmingham (20-31). Wildscreen 82 Exhibition, Bristol (22-26).

November Design Council Exhibition, Newcastle (mid-Nov to mid-Dec). Compec Show, Olympia (16-19). Business

Data Processing and Education Conference, Kelvin Hall, Glasgow (23-27). December

British Cardiac Exhibition and Conference, Wembley (6-7). Strategies for Software Development Conference (7-11), 6th International On-Line Information Exhibition, Cunard International Hotel (8-10). 2 IT 82 Year-end Conference, Barbican (8-9).

The IT stand will be at these exhibitions. Calendar compiled from information supplied by the IT 82 projects office.



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A growing number of leading companies such as Sony, BP and IBM United Kingdom are Within seconds, it can be retrieved by anyone using Prestel for their in-house information and communication needs.

Others are using Prestel to keep in touch with salesmen working from home.

Major airlines and tour operators are using Prestel to update travel agents on availability. While the travel agents are using Prestel to

advise clients and even make bookings. And the business news service, UNS, is using Prestel to feed local news stories to local newspapers across the country.

While the local newspapers are having the relevant pages printed off ready for sub-editing.

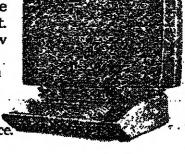
Prestel has made electronic mail a reality now. Next year, when Prestel opens a Gateway to other computer systems, users of Prestel will actually be able to carry out live transactions with The world viewdata servi

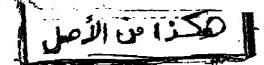
computerised information system in the world. And it's the cheapest.

You can rent a Prestel set from about £15 a month. Or buy an adaptor for an existing television for less than £200. And after

that it's a matter of pence for the pages you look at. If you'd like to know

more, wed like you to call Bryan Conwayon





INFORMATION TECHNOLOGY

Mr a be ing en the ike

Pearce Wright, Science Editor and Clive Cookson, technology correspondent, consider a future

increasingly dependent on electronic information

Time for a fourth industrial sector

Conventional statistics kept by the governments of the industrial world divide the economy into three sectors of activity: agricultural, manufacturing and services. These figures show the shift over the years from the land to factories and more recently into service occupations by workforce. In North America the proportion of people working in service jobs has risen to almost six out of 10 individuals.

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An important part of this expanding group of workers are people 'involved in the production, storage, retrieval and distribution of infor-mation. According to Dr H. P. Gassman of the Organization for Economic Cooperation and Development (OECD) in Paris, those activities are acquiring a growing importance in the overall importance in the overall production of goods and

That view is supported by a new survey of Science and Engineering Employment by the National Science Foundation, in Washington, which shows that employment of computer graduates almost doubled between 1970 and 1980, while engineering employment generally increased only 25 per cent.

Against that background a group of experts from the OECD member countries are examining the connexion between information technology, productivity and employment. Their prelimiconclusion suggests it is time for the industrial world to include a fourth sector to the breakdown of economic activities.

But these specialists, who
meet as a working party on

information, computer and communications policy, are refining a scheme for sepa-rating out the "information sector" from the traditional three across which it cuts. There is an element of

"information activity" in any occupation. The estimate of the size of the fourth economic sector defines information occupations as those which have the pro-duction, processing or distri-bution of information as their primary purpose. To these are added jobs which build and maintain the infor-mation systems that the first group use, such as telephone network fitters, computer operators and office equipment maintenance men.

Information producers are divided between four groups of workers. First, scientific and technical workers engaged in research and development. Next, information gatherers who cover a variety of occupations mainly concerned with creating new sources of information. Then there are market search and coordination specialists who provide, via search activities, market information to buy- the form of individual routers, sellers or both. Fourth, there are those providing consultative services by applying an existing body of knowledge to the particular needs of a client.

Information processors cover the administrators and managers who have to know how to interpret and exploit the information given to them. Clerical and related jobs which call upon an employee to manipulate information and data in a form

appropriate to an employer are also in this category. Information distributors include teachers, publishers and librarians, and a variety of jobs in the news and entertainment media. Finally come the so-called infrastructure occupations of those who install, operate and repair the machines and technologies to support in-formation activities. ■ Before long, Japanese motorists will be guided electronically to their desti-

nations by the shortest and least congested routes. The driver puts a seven-digit code, corresponding to his destination, into the car's microprocessor before set-ting out on the journey.



Then, whenever he approaches an intersection, a visual display unit on the dashboard will direct him to turn right or left or continue straight ahead. It also tells him graphically which lane to use for entering or leaving

instructions, the system will flash important information about road conditions ahead: for example, "road works" or "pedestrian crossing".

The Comprehensive Automobile Traffic Control System, as it is called, has already been tested successfully in an experiment covering 30 sq km of Tokyo. The results are now being evaluated by a government-indus-try committee, with a view to installing the system in other urbanized areas of Japan.

The system depends on loop antennae installed under the road about 200 metres from each intersection and connected to a roadside transmitter/processor unit.
As a car drives over an antenna, a two-way digital communications link is established automatically between it and the roadside unit. The unit picks up the vehicle's destination and identification codes and transmits the routing and driving infor-mation back to it.

All the roadside units alsoinformation and deduces an overall pattern of traffic density and movement. That is relayed back to the roadside units and then, in ing and driving guidance, the cars passing by. .

Before microcomputers were invented, scientists doing research in computer technology were casting an envious eye at molecular biologists unravelling the mechanism whereby the genetic code is stored and operated from the double helix of DNA in the nucleus of cells. In terms of infor-mation processing and storage, it makes even the latest microchips containing 250,000 transistors look like a

dinosaur and slow.

But a small privatelyowned research company, in Maryland, is experimenting with ideas for biological computers that exploit DNA. coding. This intriguing devel-opment is described in the current issue of the magazine Omni. It is the idea, some may say fantasy, of Dr James McAlear who has assembled a small team of expert genetic engineers and biochemists to devise a prototype bioprocessor. type bioprocessor.

They hope to design computers that will assemble reusable themselves by using the sheet, mechanism common to all restraint.

living things. These futuristic bioprocessors would also be used as implants to treat inevitable from the moment blindness or deafness caused by damage to tissues. Prestel viewdata and the BBC's and ITV's Ceefax and

services like British Telecon

Oracle teletext were in-

vented. For they depend on

information

distributing information stored in a central computer,

and hence they become electronic publishers.

The interesting thing is to see how traditional pub-lishers respond. The pace in

applying electronic tech-nology in Britain was set by

the regional and local news-

papers. The first advance,

however, was the introduc-tion of web-offset printing to

replace the traditional letter-press machines. But this was

soon coupled with compute-

what is now generally referred to in the printing industry as cold type. Web-

photocomposition or

The attraction of exploiting biological processes is un-derstandable because the biologist is looking at con-ductive velocities of impulses, circuit switching speeds and packing densities of information that leave the electronic engineer far

Dr McAlear is not the only pioneer in this field. But his work of applying biological principles to manufacture the ultimate in integrated circuits began with an idea for building a conventional chip out of protein. In animals, proteins organize a vast array of biochemicals and assemble them into living organisms. organisms. Dr McAlear believes that a mechanism capable of creating order from that incredible com-plexity could serve as a basis for organizing simple micro-

paper pages and pictures via radio links and communications satellites for printing simultaneously in severa places is having a growing impact on publishing. Even a famous newspaper like the New York Times is expanding into a national rather than a transmit traffic data back to largely regional distributed the system's control centre. Publication. Its method of The latter processes the scanning completed newsscanning completed newspaper pages with a laser system which transmits the image to receivers in other cities is very advanced technology.

The transmission of news-

transmission by satellites is extending the International Herald Tribune's circulation to more corners of the globe; and the two great American weekly magazines, Time and Newsweek, exploit this chan-nel in the competition to get their issues first into the hands of overseas readers. Yet these developments are

Yet these developments are still based on the idea of producing pages of newsprint, to be squeezed by a delivery boy through the letter box or bought from the news stand. But even more advanced experiments in the United States show how to produce an individually printed newspaper in the home, containing only those pages selected by the reader.

In technical terms, process is not particularly stunning. The factors putting a brake on the development are economic and social. The method works by having a printer attached to a television set that is providing a videotex service. The absence of a very cheap printer, probably working with reusable paper or plastic sheet, is the biggest offset and computer phototypesetting make

The web-offset machines available 15 years ago to start the revival for regional newspapers were not adequate for the scale of national newspaper oper-ations. But the relentless increase in newsprint costs, distribution and competition from broadcasting services had galvanized publishers in America to use phototypeset-ting, and to follow it with computer editing, even for large circulation titles. The past five years in particular has seen the arrival of video display terminals in news

The technical details of various schemes are a bit academic, but the issues at stake between the traditional and electronic publisher are not. Both of them are now creating what is in effect a computer information warehouse. The first difference between printing and other manufacturing industries is that the raw materials held in the warehouse of the pub-lisher are computerized data. Using that data to provide an electronic newspaper on demand by the customer will comes as certainly as night follows day. The second difference is

that the products of the information warehouse are almost everlastingly reusable. So the electronic publisher has potential for an incredible choice of services. The product at the end of the day may be a set of photographic transparancies or polymer plates. The photographic images can be sent by facsimile transmission to three or four places for printing by web-offset. At the same time, specialized services can be offered to subscribers who want to order their own category of newspaper information to be printed at home or work.

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A place in the High Street Information Technology is print their job application for a printed page. "At first already beginning to take its letters and curriculum vitae. sight this might sound explace in the High Street. She has in her growing pensive, but it is a lot

Shops are opening, equipped with word processors and high-speed printers, offering plete novel, newsletters, a a fast service, mostly for catalogue of rare antique a fast service, mostly for local small businessmen.

Precise figures for this ew "cottage industry" use of information technology have not yet been compiled, but estimates suggest that some 200 operations from shop, or even front room, are functioning in the country. "But, from the number of inquiries I have had, the inquiries I have had, the number is growing," said Mrs Andrea Wharton, a director of Keith Wharton Consultants, who produce a monthly International Word Processing Report.

"Machinery is easier to work now and prices are coming down, making it easier for, say, the married woman, or disabled person, a business from

Laura Tatham, a former journalist specializing in computers, for many years, opened Wordpro Word Processing Service, in a former tailor's shop in Essex Road, North London, six months

Her clients range from a local cheese importer, merchant bank, solicitor, firm of international consultants, to price would be £2.75 to set up let alone think of using it. some young people who have asked her to prepare and

She has in her growing hoard of memory discs, hoard of memory discs, procedure manuals, a combooks, leases and several personalized mailings for local companies. She has also transcribed a technical semmar from audio tape for one

she does it for them while they wait.

Local people, with their shopping bags, often walk past her bright green shop with window full of geraniums, and finally come in and ask "What do you do"? Miss Tatham usually lets

people look over her shoulder as she keys in, say, a letter on her Compucorp wordpres-sor -- demonstrating how to make instant corrections or how to check spelling errors by switching in a stored dictionary. The calculations of this year to have about 60", says Mr Michael Freer. dictionary. Then she shows how, by pushing a button the Diablo printer alongside her produces the letter at a speed

a full A4 page, 550 words, in the word processor plus 30p

pensive, but it is a lot cheaper than hiring a tem-porary secretary," she says. She employs Marie Bryant, 18, who operates a second on a work experience course" said Miss Tatham, "but this is her first job. Because she is disabled the computer company sent someone down here to train her. She picked it up amaz-ingly quickly. I'm always hearing that word processing and information technology are going to mean unemployment, but here is a good example of it creating work. It is ideal for the disabled, an area where there is a crying need for new employment opportunities".

Wordplex, the company which makes and sells word processors, operate about 35 service shops, on a franchise system. "We got going last year and expect by the end of

"It is one of the best ways of spreading the gospel of Information Technology. Fve just heard about a vicar who of 45 characters a second, or has had his parish list done half a minute for a full A4 on a word processor. A year ago he wouldn't have known

Rita Marshall

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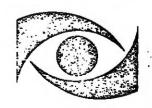
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